

**HellermannTyton**

# Product Catalog

North America 2019/2020



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Inspired by you

# MADE FOR

Our 2019/2020 product catalog

A photograph of two men in a workshop. The man on the left is wearing glasses and a dark shirt. The man on the right is wearing a dark polo shirt and is pointing towards a piece of equipment. The background is a blurred workshop environment.

# REAL



We listen. We understand. We invent. We deliver. It's concrete action and not big words that help you effectively manage your cables.

Standard part or custom development: HellermannTyton products help industry professionals reliably fasten, insulate, protect, install, identify, apply and connect electrical cables and network connectivity solutions. Your challenges motivate us to deliver inventive products that make a difference to your business – wherever you are in the world.

Quality and service you can rely on – MADE FOR REAL.



**MADE FOR REAL<sup>®</sup>**

**Inspired by  
innovation**

## HellermannTyton develops industry-specific product ranges that raise the bar across the world



### Speed, reliability and precision: AT2000 CPK

Our class-leading automatic cable tie application tool features exclusive dual drive motors and the versatility to adapt to any workflow. You'd expect nothing less from the industry's tool leader.

### Comprehensive industry expertise

From torsion to weight reduction – every single industry has its own unique demands in terms of cable management. With a high degree of expertise, HellermannTyton develops tailor-made technologies for different markets and industries. These include:



Aerospace



Automotive



Data Communications



Defense



Energies – Solar



Energies – Wind



Industrial Automation



Machines and Equipment Builders (OEM)



Rail



Truck / Heavy Equipment

For more information about our markets and industries please refer to:

[www.HellermannTyton.com/industries](http://www.HellermannTyton.com/industries)

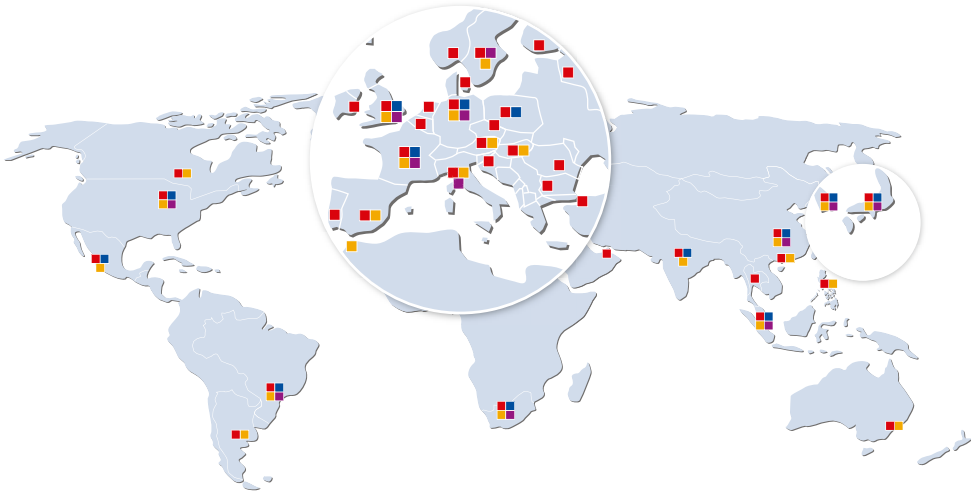


MADE FOR REAL 

Inspired by  
teamwork



HellermannTyton is an international team with a passion to create the best cable management solutions.



- Sales office
- Distribution
- Manufacturing
- Development

No matter which HellermannTyton sites you visit in person, you can be assured of a friendly, confident atmosphere. In a survey, 10,000 customers confirmed that we are on the right track, with 97 percent saying they would be happy to recommend us.

We want things to stay that way and even improve wherever possible. We will do this with high-quality products and – first and foremost – motivated people who listen carefully, get things done and seek to satisfy all needs.

A large industrial jet engine is shown in a factory setting. The engine is the central focus, with its complex internal components and large fan visible. A worker in a blue uniform and safety glasses is standing to the right, working on the engine. The scene is brightly lit, and the engine's metallic surface reflects the light. The text "MADE FOR REAL" is overlaid on the left side of the image.

MADE FOR REAL<sup>®</sup>

Inspired by  
extremes

HellermannTyton develops its own products on an ongoing basis. Worldwide, there are about 75,000. We add new ideas every day.



#### 1. Bundling & Securing

*TIP:* When routing wires or cable near a panel edge, use a self-affixing cable tie. Our integrated edge clip goes on easy and exhibits incredible extraction force.



#### 2. Routing, Protection & Insulation

*TIP:* Save time installing wire and cable protective sheathing. Choose HelaWrap, which can be applied to your bundle as easily as using a zipper.



#### 3. Identification

*TIP:* Get an incredible boost in productivity while reducing print errors and label waste. See the technology that will redefine your label printing workflow.



#### 4. Application Tools

*TIP:* Reduce operator strain and fatigue. The EVO 9 is designed to significantly reduce kickback while consistently tensioning and cutting cable ties up to 250 lb. tensile strength.



#### 5. Electrical Installation

*TIP:* Make safe, reliable electrical connections in an instant with HelaCon Plus Mini. They're easier to use than wire caps and fit better inside electrical enclosures.





### Inspired by design

Edge clips were originally developed for a luxury car. Its cables needed to be routed precisely along an edge where neither drilling nor welding was permitted. The resulting fastener solved the problem so perfectly, this smart cable routing solution was quickly adapted to other models across the world. Today, HellermannTyton makes approximately 90 different edge clips for a wide range of industries.

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# Bundling and Securing

## Material Specification Overview

Material	Material Shortcut	Operating Temperature	Color**	Flammability	Material Properties*	Specifications
Ethylene chlorotrifluoroethylene	E/CTFE	-105°F to +302°F (-76°C to +150°C)	Red (RD)	UL 94 V0	Resistance to radioactivity UV resistant, not moisture sensitive Good chemical resistance to acids, bases, oxidizing agents	
Ethylentetrafluoroethylene	E/TFE	-112°F to +302 °F (-80°C to +150°C)	Blue (BU)	UL 94 V0	Resistance to radioactivity Outstanding UV resistance, not moisture sensitive Good chemical resistance to acids, bases, oxidizing agents	ASTM D-3159 Type 1 Grade 1UL 2043
Polyacetal	POM	-40°F to +194°F (-40°C to +90°C)	Natural (NA)	UL 94 HB	Limited brittleness sensitivity Flexible at low temperature Not moisture sensitive Robust on impact Not recommended for UV resistance	ASTM D6778 POM 0213
Polyacetal, UV stabilized	POMUV	-40°F to +221°F (-40°C to +105°C)	Natural (NA)	UL 94 HB	Limited brittleness sensitivity Flexible at low temperature Not moisture sensitive Robust on impact Excellent UV resistance	
Polyamide 12	PA12	-40°F to +248°F (-40°C to +120°C)	Black (BK)	UL 94 HB	Good chemical resistance to acids, bases, oxidizing agents Excellent UV resistance	ASTM D-4066PA411
Polyamide 4.6	PA46	-40°F to +266°F (-40°C to +130°C)	Brown (BN), Gray (GY), Natural (NA)	UL 94 V2	Resistance to high temperatures Very moisture sensitive Low smoke sensitivity Poor UV resistance	ASTM D-4066PA0922
Polyamide 6	PA6	-40°F to +176°F (-40°C to +80°C)	Black (BK)	UL 94 V2	High yield strength	
Polyamide 6.6	PA66	-40°F to +185°F (-40°C to +85°C)	Black (BK), Natural (NA)	UL 94 V2	High yield strength Poor UV resistance	ASTM D-4066PA0111FDA CFR177.1500
Polyamide 6.6, heat stabilized, glass fiber reinforced	PA66GF30	-40°F to +284°F (-40°C to +140°C)	Black (BK), Natural (NA)	UL 94 HB	High yield strength Poor UV resistance	UL
Polyamide 6.6, high impact modified, heat and UV stabilized, proprietary blend	PA66HIR-HSUVR5	-40°F to +230°F (-40°C to +110°C)	Black (BK)	UL 94 HB	Limited brittleness sensitivity Higher flexibility at low temperature Modified elevated maximum temperature High yield strength, Very good UV resistance	ASTM D-4066PA0151
Polyamide 6.6, high impact modified, heat stabilized	PA66HIRHS	-40°F to +230°F (-40°C to +110°C)	Black (BK)	UL 94 HB	Limited brittleness sensitivity Higher flexibility at low temperature Modified elevated maximum temperature Very good UV resistance	ASTM D-4066PA0161
Polyamide 6.6, high impact modified, heat stabilized, glass fiber reinforced	PA-66HIRHSGF	-40°F to +257°F (-40°C to +125°C)	Black (BK), Natural (NA), Green (GN), Blue (BU), Red (RD)	UL 94 HB	High yield strength Poor UV resistance	
Polyamide 6.6, with metal particles	PA66MP	-40°F to +185°F (-40°C to +85°C)	Blue (BU)	UL 94 HB	High yield strength Metal and X-Ray detectable	
Polyamide 6.6 glass fiber reinforced	PA66GF15	-40°F to +284°F (-40°C to +140°C)	Black (BK), Natural (NA)	UL 94 HB	High yield strength Poor UV resistance	UL
Polyamide 6.6 glass filled impact modified heat stabilized	PA66GF13	-40°F to +284°F (-40°C to +140°C)	Black (BK), Natural (NA)	UL 94 HB	High yield strength Poor UV resistance	UL

\*These details are only guide values. They should not be regarded as a exhaustive material specification and are no substitute for suitability tests. Please see our datasheets for further details.

\*\*Additional colors available on request.

HF = Halogen free

LFH = Limited Fire Hazard

RoHS = Restriction of Hazardous Substances

# Bundling and Securing

## Material Specification Overview

Material	Material Shortcut	Operating Temperature	Color**	Flammability	Material Properties*	Specifications
Polyamide 6.6 heat stabilized	PA66HS	-40°F to +257°F (-40°C to +125°C)	Black (BK), Natural (NA)	UL 94 V2	High yield strength Modified elevated maximum temperature Poor UV resistance	ASTM D-4066PA0121
Polyamide 6.6 high impact modified, heat and UV stabilized	PA66HIR-HSUV	-40°F to +230°F (-40°C to +110°C)	Black (BK)	UL 94 HB	Limited brittleness sensitivity Higher flexibility at low temperature Modified elevated maximum temperature High yield strength Very good UV resistance	ASTM D-4066PA0151UL
Polyamide 6.6 V0	PA66V0	-40°F to +212°F (-40°C to +100°C)	White (WH)	UL 94 V0	High yield strength Low smoke emission	ASTM D-4066PA0110
Polyaryletherketone	PAEK	-67°F to +392°F (-55°C to +200°C)	Beige (BGE)	UL 94 V0	Resistance to radioactivity Not moisture sensitive Good chemical resistance to acids, bases, oxidizing agents Poor UV resistance	21CFR 177.2415EEC 93/9/ EEC 151G
Polyetheretherketone	PEEK	-67°F to +464°F (-55°C to +240°C)	Beige (BGE)	UL 94 V0	Resistance to radioactivity Not moisture sensitive Good chemical resistance to acids, bases, oxidizing agents	DNV GL   EN 62275:2009VDE   DIN EN 62275:2016- 0121CFR 177.2415EEC 93/9/ EEC 151G
Polyethylene	PE	-40°F to +220°F (-40°C to +104°C)		UL 94 V2	Moderate yield strength Not moisture sensitive Good chemical resistance to acids, bases and solvents	
Polyphenylene sulfide	PPS	-40°F to +302°F (-40°C to +150°C)	Black (BK), Gray (GY)	UL 94 HB	Good UV resistance	
Polypropylene	PP	-40°F to +239°F (-40°C to +115°C)	Black (BK), Natural (NA)	UL 94 HB	Floats in water Moderate yield strength Good chemical resistance to acids, bases and solvents Good UV resistance	ASTM D-4101PP0327
Polypropylene 20% talcum	PPT20	-40°F to +149°F (-40°C to +65°C)		UL 94 HB	Low moisture absorption Good chemical resistance to most acids, bases, alcohol, oils	
Polyvinylchloride	PVC	+122°F (+50°C)	Black (BK), Natural (NA)	UL 94 V0	Low moisture absorption Good chemical resistance to acids, bases, salts, alcohol, oils	
Stainless steel	SS304, SS316	-112°F to +1000°F (-80°C to +538°C)	Metal (ML)	Non-Burning	Corrosion resistant Antimagnetic Weather resistant Outstanding chemical resistance	
Thermoplastic elastomer	TPE	-40°F to +122°F (-40°C to +50°C)		UL 94 HB	Low moisture absorption Good chemical resistance to acids, bases, salts, alcohol, oils	
Thermoplastic vulcanized rubber	TPV	-40°F to +194°F (-40°C to +90°C)	Black (BK)	UL 94 HB	High elasticity Good chemical resistance to acids, bases and oxidizing agents No UV resistance	

\*These details are only guide values. They should not be regarded as a exhaustive material specification and are no substitute for suitability tests. Please see our datasheets for further details.

\*\*Additional colors available on request.

HF = Halogen free

LFH = Limited Fire Hazard

RoHS = Restriction of Hazardous Substances

# Bundling and Securing

## Chemical Resistance of Various Plastics

A = resistant

B = partly resistant

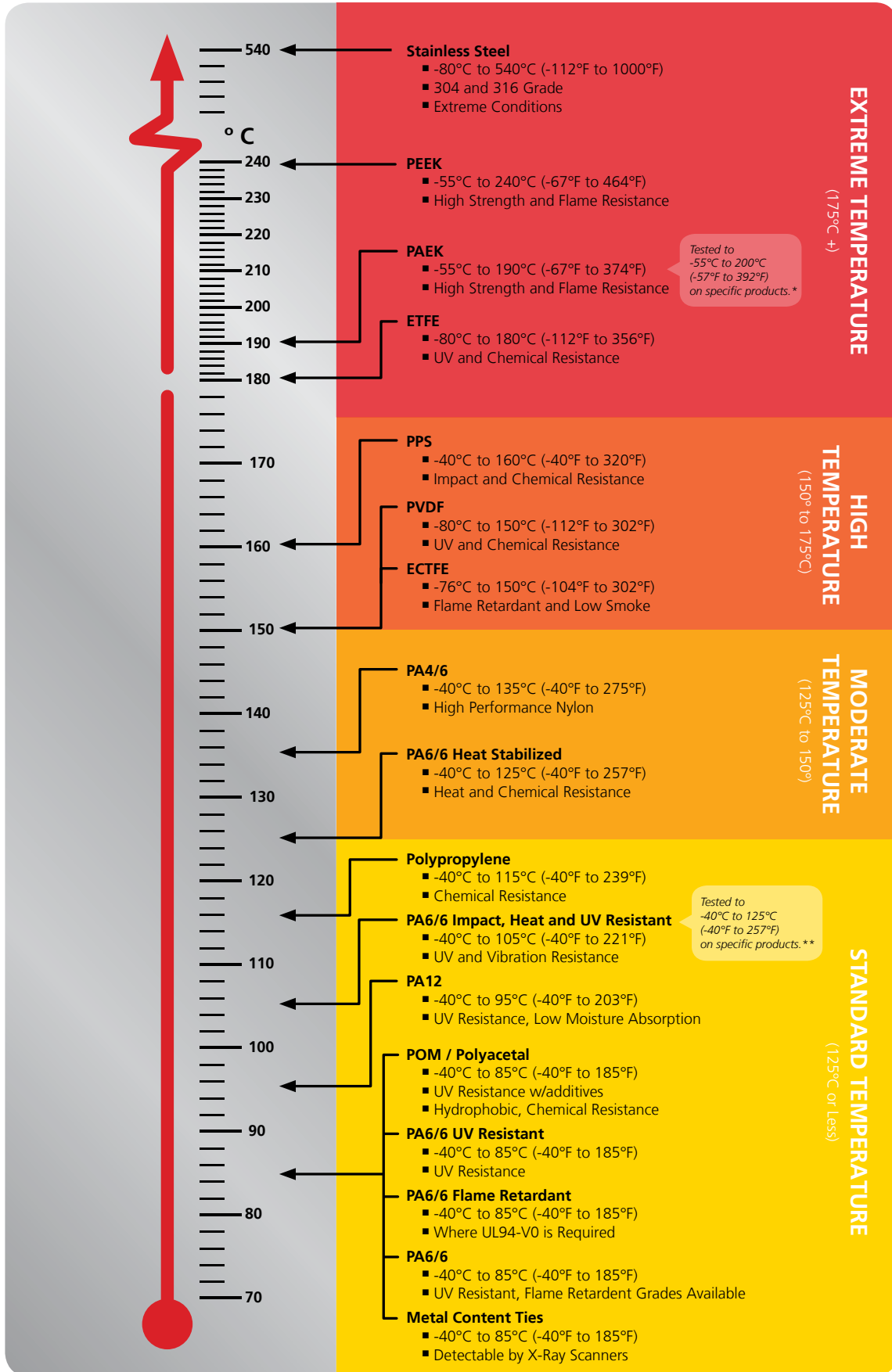
C = not resistant

N/A = not applicable

These values are only rough guides. They should not be regarded as a material specification and are no substitute for a suitability test. Please see our technical datasheets for further details.

	Conc (%)	Temp. (°C)	MATERIAL SHORTCUT									
			PA66	PA46	PA12	PA11	POM	PP	ETFE	TPV	PAEK	PPS
Acetaldehyde	90	52°	B	B	N/A	C	N/A	A	A	B	A	N/A
Acetic Acid	5	23°	B	B	B	B	A	A	A	A	A	N/A
Acetone	100	23°	A	A	A	A	B	A	A	B	A	A
Ammonium chloride	10	52°	C	B	N/A	N/A	N/A	A	A	N/A	N/A	N/A
Benzaldehyde	N/A	23°	A	B	N/A	A	N/A	N/A	A	C	A	N/A
Benzene	100	23°	A	A	A	A	B	B	A	C	A	N/A
Bromine	100	23°	C	C	C	C	N/A	C	A	N/A	N/A	N/A
Calcium chloride	5	60°	A	A	N/A	A	A	A	A	A	A	A
Carbon tetrachloride	100	23°	A	A	B	C	B	C	A	C	N/A	N/A
Chlorine water	Dilute	23°	C	C	N/A	C	N/A	N/A	A	C	N/A	N/A
Chloroform	100	23°	B	C	C	N/A	C	C	A	C	N/A	N/A
Chromic acid	10	23°	C	C	N/A	C	B	A	A	C	A	N/A
Copper sulfate	10	23°	A	A	A	A	A	A	A	N/A	N/A	N/A
Cyclohexanone	100	23°	A		N/A	C	N/A	B	A	B	A	N/A
Diethyl ether	100	23°	A	A	A	A	A	N/A	A	N/A	A	A
Engine oil	100	23°	N/A	N/A	A	A	A	A	A	B	A	A
Ethyl acetate	95	50°	A	A	A	A	B	B	A	B	A	N/A
Ethylene glycol	N/A	23°	A	A	N/A	N/A	N/A	A	A	A	N/A	A
Ether	N/A	23°	A	A	A	N/A	A	N/A	N/A	B	N/A	N/A
Formic acid	98	23°	C	C	C	C	B	A	A	B	N/A	N/A
Gasoline	N/A	23°	A		N/A	A	N/A	B	A	C	N/A	A
Hydrochloric acid	Dilute	23°	C	C	C	B	C	A	A	A	A	A
Hydrogen peroxide	5	43°	C	C	N/A	B	C	A	A	B	N/A	N/A
Methyl alcohol	100	23°	A	N/A	N/A	N/A	A	A	A	A	N/A	A
Methyl isobutyl ketone	100	23°	A	N/A	N/A	N/A	A	N/A	A	N/A	N/A	N/A
Nitric acid	10	23°	C	C	C	C	C	A	A	B	A	A
Petroleum	N/A	23°	A	A	A	A	A	B	A	B	A	A
Phenol	90	23°	C	C	C	C	C	A	A	C	N/A	N/A
Potassium hydroxide	30	98°	B	B	B	C	A	A	A	A	A	N/A
Potassium permanganate	5	23°	C	C	C	C	A	A	A	B	A	N/A
Sodium acetate	60	38°	A	N/A	N/A	C	N/A	A	A	A	N/A	N/A
Sodium chloride	10	23°	A	A	A	A	A	A	A	A	N/A	N/A
Sodium hydroxide	10	23°	A	A	A	A	A	A	A	A	N/A	A
Sulfuric acid	30	23°	C	C	B	B	C	A	A	B	A	A
Toluene	100	50°	A	A	A	A	A	C	A	C	A	A
Xylene	100	23°	A	A	A	A	A	C	A	C	A	A





\* Ratchet P-Clamps, Cable Ties and Fir Tree Assemblies  
 \*\* Ratchet P-Clamps

### Quality Certifications, Specification & 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.

#### 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.

#### 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.

#### International Electro-Technical Commision (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.

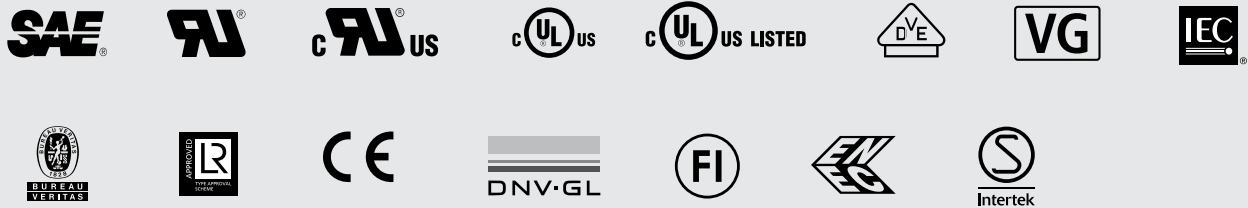
#### ISO 14001

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.

#### 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.

In addition to the IEC62275, we are proud to offer our customers products which have been certified by well-known and independent laboratories such as:



For California Proposition 65 information, please see our website.

#### Warranty Policy

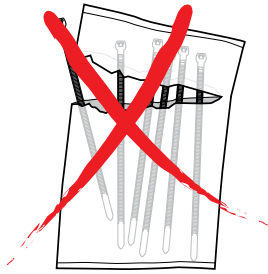
HellermannTyton products are warranted to be free from defects in material and workmanship at the time sold by us; but our obligation under this warranty and that of the seller is limited to the replacement of the product, and neither we nor the seller are bound by any other warranty, expressed, implied 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 and/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 use.

## Optimum storage conditions for cable ties made of Polyamide (PA)

**HellermannTyton** cable ties and mounts are manufactured from high-quality polyamide (PA.) This industrial synthetic 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%.

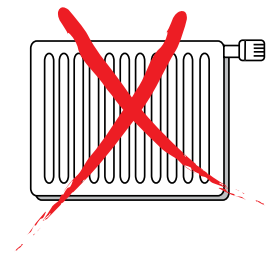
The packaging used by HellermannTyton ensures that the water content in the material remains constant. Therefore, it is important to store the products in their original packaging to preserve the quality of the ties and mounts.



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

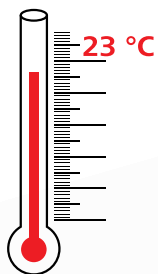


**Do not expose the product to direct sunlight**

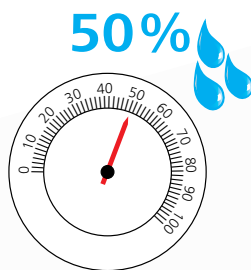


**Store the product away from direct sources of heat**

### Ideal storage conditions:



**73°F**



**50% relative humidity**



# Bundling and Securing

## Cable Ties

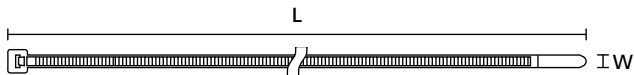
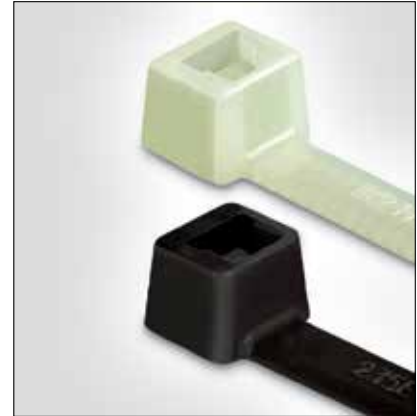
### Standard Cable Ties

#### T18 - T30 Series in Natural and Black

T-Series Cable Ties feature inside serrations to provide a positive hold on wire and cable bundles. The head design guarantees high tensile strength and a low insertion force. The bent tail design allows quick and simple installations by hand. For high-volume applications, tensioning tools are available to ensure consistent and safe installation.

#### Features and Benefits

- Engineered and manufactured for maximum performance and quality.
- Made from 100% high-quality plastic to ensure efficient recycling.
- Inside serration for a strong grip onto bundles.
- Easy application either manually or with a tensioning tool.
- Bent tail allows for simpler insertion.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
T18I0C2*	T18I	18.0 (80.0)	5.5 (140.0)	1.4 (35.0)	0.1 (2.5)	PA66	Black	100
T18I0M4*		18.0 (80.0)	5.5 (140.0)	1.4 (35.0)	0.1 (2.5)	PA66	Black	1000
T18I9C2*		18.0 (80.0)	5.5 (140.0)	1.4 (35.0)	0.1 (2.5)	PA66	Natural	100
T18I9M4*		18.0 (80.0)	5.5 (140.0)	1.4 (35.0)	0.1 (2.5)	PA66	Natural	1000
T18L0C2*	T18L	18.0 (80.0)	8.0 (205.0)	2.2 (55.0)	0.1 (2.5)	PA66	Black	100
T18L0M4*		18.0 (80.0)	8.0 (205.0)	2.2 (55.0)	0.1 (2.5)	PA66	Black	1000
T18L9C2*		18.0 (80.0)	8.0 (205.0)	2.2 (55.0)	0.1 (2.5)	PA66	Natural	100
T18L9M4*		18.0 (80.0)	8.0 (205.0)	2.2 (55.0)	0.1 (2.5)	PA66	Natural	1000
T18R0C2*	T18R	18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66	Black	100
T18R0M4*		18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66	Black	1000
T18R9C2*		18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66	Natural	100
T18R9M4*		18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66	Natural	1000
T18S0C2*	T18S	18.0 (80.0)	3.3 (83.0)	0.6 (16.0)	0.1 (2.3)	PA66	Black	100
T18S0M4*		18.0 (80.0)	3.3 (83.0)	0.6 (16.0)	0.1 (2.3)	PA66	Black	1000
T18S9C2*		18.0 (80.0)	3.3 (83.0)	0.6 (16.0)	0.1 (2.3)	PA66	Natural	100
T18S9M4*		18.0 (80.0)	3.3 (83.0)	0.6 (16.0)	0.1 (2.3)	PA66	Natural	1000

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. EVO9 and MK9P cannot be used with T18S cable ties. Military black available. Contact HellermannTyton for more information.

\*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

### Standard Cable Ties

#### T18 - T30 Series in Natural and Black

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
T30L0C2*	T30L	30.0 (135.0)	7.8 (198.0)	2.0 (50.0)	0.1 (3.6)	PA66	Black	100
T30L0M4*		30.0 (135.0)	7.8 (198.0)	2.0 (50.0)	0.1 (3.6)	PA66	Black	1000
T30L9C2*		30.0 (135.0)	7.8 (198.0)	2.0 (50.0)	0.1 (3.6)	PA66	Natural	100
T30L9M4*		30.0 (135.0)	7.8 (198.0)	2.0 (50.0)	0.1 (3.6)	PA66	Natural	1000
T30LL0C2*	T30LL	30.0 (135.0)	11.4 (290.0)	3.2 (80.0)	0.1 (3.6)	PA66	Black	100
T30LL0M4*		30.0 (135.0)	11.4 (290.0)	3.2 (80.0)	0.1 (3.6)	PA66	Black	1000
T30LL9C2*		30.0 (135.0)	11.4 (290.0)	3.2 (80.0)	0.1 (3.6)	PA66	Natural	100
T30LL9M4*		30.0 (135.0)	11.4 (290.0)	3.2 (80.0)	0.1 (3.6)	PA66	Natural	1000
T30R0C2*	T30R	30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66	Black	100
T30R0M4*		30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66	Black	1000
T30R9C2*		30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66	Natural	100
T30R9M4*		30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66	Natural	1000
T30XL0C2*	T30XL	30.0 (135.0)	14.0 (365.0)	4.1 (104.9)	0.1 (3.6)	PA66	Black	100
T30XL0M4*		30.0 (135.0)	14.0 (365.0)	4.1 (104.9)	0.1 (3.6)	PA66	Black	1000
T30XL9C2*		30.0 (135.0)	14.0 (365.0)	4.1 (104.9)	0.1 (3.6)	PA66	Natural	100
T30XL9M4*		30.0 (135.0)	14.0 (365.0)	4.1 (104.9)	0.1 (3.6)	PA66	Natural	1000

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P, EVO9 and MK9P cannot be used with T18S cable ties. Military black available. Contact HellermannTyton for more information.

\*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

# Bundling and Securing

## Cable Ties

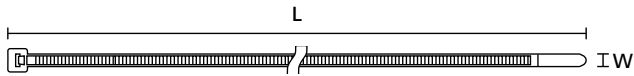
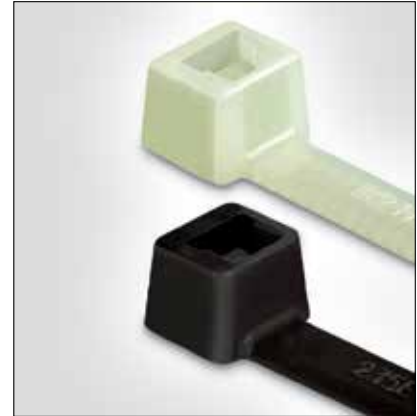
### Standard Cable Ties

#### T40 - T50 Series in Natural and Black

T-Series Cable Ties feature inside serrations to provide a positive hold on wire and cable bundles. The head design guarantees high tensile strength and a low insertion force. The bent tail design allows quick and simple installations by hand. For high-volume applications, tensioning tools are available to ensure consistent and safe installation.

#### Features and Benefits

- Engineered and manufactured for maximum performance and quality.
- Made from 100% high-quality plastic to ensure efficient recycling.
- Inside serration for a strong grip onto bundles.
- Easy application either manually or with a tensioning tool.
- Bent tail allows for simpler insertion.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
T40R0C2*	T40R(U)	40.0 (180.0)	8.3 (212.0)	2.2 (55.9)	0.2 (4.0)	PA66	Black	100
T40R0M4*		40.0 (180.0)	8.3 (212.0)	2.2 (55.9)	0.2 (4.0)	PA66	Black	1000
T40R9C2*		40.0 (180.0)	8.3 (212.0)	2.2 (55.9)	0.2 (4.0)	PA66	Natural	100
T40R9M4*		40.0 (180.0)	8.3 (212.0)	2.2 (55.9)	0.2 (4.0)	PA66	Natural	1000
T40I0C2*	T40I	40.0 (180.0)	11.6 (295.0)	3.2 (80.0)	0.2 (4.0)	PA66	Black	100
T40I0M4*		40.0 (180.0)	11.6 (295.0)	3.2 (80.0)	0.2 (4.0)	PA66	Black	1000
T40I9C2*		40.0 (180.0)	11.6 (295.0)	3.2 (80.0)	0.2 (4.0)	PA66	Natural	100
T40I9M4*		40.0 (180.0)	11.6 (295.0)	3.2 (80.0)	0.2 (4.0)	PA66	Natural	1000
T40L0C2*	T40L	40.0 (180.0)	14.6 (370.0)	4.1 (104.9)	0.2 (4.0)	PA66	Black	100
T40L0M4*		40.0 (180.0)	14.6 (370.0)	4.1 (104.9)	0.2 (4.0)	PA66	Black	1000
T40L9C2*		40.0 (180.0)	14.6 (370.0)	4.1 (104.9)	0.2 (4.0)	PA66	Natural	100
T40L9M4*		40.0 (180.0)	14.6 (370.0)	4.1 (104.9)	0.2 (4.0)	PA66	Natural	1000
T50S0C2*	T50S	50.0 (225.0)	6.3 (160.0)	1.4 (35.0)	0.2 (4.6)	PA66	Black	100
T50S0M4*		50.0 (225.0)	6.3 (160.0)	1.4 (35.0)	0.2 (4.6)	PA66	Black	1000
T50S9C2*		50.0 (225.0)	6.3 (160.0)	1.4 (35.0)	0.2 (4.6)	PA66	Natural	100
T50S9M4*		50.0 (225.0)	6.3 (160.0)	1.4 (35.0)	0.2 (4.6)	PA66	Natural	1000

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. Military black available. Contact HellermannTyton for more information. \*This product meets UL standards. Please see appendix for specific file numbers. \*This product meets UL standards. Please see appendix for specific file numbers.



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### Standard Cable Ties

#### T40 - T50 Series in Natural and Black

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
T50R0C2*	T50R	50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66	Black	100
T50R0M4*		50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66	Black	1000
T50R9C2*		50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66	Natural	100
T50R9M4*		50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66	Natural	1000
T50I0C2*	T50I	50.0 (225.0)	12.0 (305.0)	3.2 (81.3)	0.2 (4.6)	PA66	Black	100
T50I0M4*		50.0 (225.0)	12.0 (305.0)	3.2 (81.3)	0.2 (4.6)	PA66	Black	1000
T50I9C2*		50.0 (225.0)	12.0 (305.0)	3.2 (81.3)	0.2 (4.6)	PA66	Natural	100
T50I9M4*		50.0 (225.0)	12.0 (305.0)	3.2 (81.3)	0.2 (4.6)	PA66	Natural	1000
T50L0C2*	T50L	50.0 (225.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA66	Black	100
T50L0M4*		50.0 (225.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA66	Black	1000
T50L9C2*		50.0 (225.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA66	Natural	100
T50L9M4*		50.0 (225.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA66	Natural	1000

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. Military black available. Contact HellermannTyton for more information. \*This product meets UL standards. Please see appendix for specific file numbers. \*This product meets UL standards. Please see appendix for specific file numbers.



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# Bundling and Securing

## Cable Ties

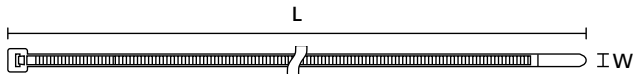
### Standard Cable Ties

#### T18R and T30R Series in Colors

T-Series Cable Ties feature inside serrations to provide a positive hold on wire and cable bundles. The head design guarantees high tensile strength and a low insertion force. The bent tail design allows quick and simple installations by hand. For high-volume applications, tensioning tools are available to ensure consistent and safe installation.

#### Features and Benefits

- Engineered and manufactured for maximum performance and quality.
- Made from 100% high-quality plastic to ensure efficient recycling.
- Inside serration for a strong grip onto bundles.
- Easy application either manually or with a tensioning tool.
- Bent tail allows for simpler insertion.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
116-01816	T18R	18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66	Blue	100
T18R6M4*		18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66	Blue	1000
111-01933		18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66	Brown	100
T18R1M4*		18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66	Brown	1000
116-01818		18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66	Gray	100
T18R8M4*		18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66	Gray	1000
116-01815		18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66	Green	100
T18R5M4*		18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66	Green	1000
111-01934		18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66	Orange	100
T18R3M4*		18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66	Orange	1000
T18R7M4*		18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66	Purple	1000
116-01812		18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66	Red	100
T18R2M4*		18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66	Red	1000
111-01935		18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66	Violet	100
111-01936		18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66	White	100
T18R10M4*		18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66	White	1000
116-01814		18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66	Yellow	100
T18R4M4*		18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66	Yellow	1000

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Installation tools: EVO7 and EVO7SP. \*This product meets UL standards. Please see appendix for specific file numbers.



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### Standard Cable Ties

#### T18R and T30R Series in Colors

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
T30R6C2*	T30R	30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66	Blue	100
T30R6M4*		30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66	Blue	1000
T30R1C2*		30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66	Brown	100
T30R1M4*		30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66	Brown	1000
T30R8C2*		30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66	Gray	100
T30R8M4*		30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66	Gray	1000
T30R5C2*		30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66	Green	100
T30R5M4*		30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66	Green	1000
T30R3C2*		30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66	Orange	100
T30R3M4*		30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66	Orange	1000
T30R7C2*		30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66	Purple	100
T30R7M4*		30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66	Purple	1000
T30R2C2*		30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66	Red	100
T30R2M4*		30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66	Red	1000
T30R10C2*		30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66	White	100
T30R10M4*		30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66	White	1000
T30R4C2*		30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66	Yellow	100
T30R4M4*		30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66	Yellow	1000

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 Installation tools: EVO7 and EVO7SP. \*This product meets UL standards. Please see appendix for specific file numbers.



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# Bundling and Securing

## Cable Ties

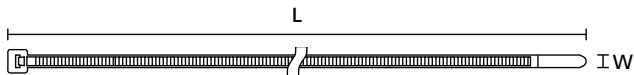
### Standard Cable Ties

#### T50R and T50L Series in Colors

T-Series Cable Ties feature inside serrations to provide a positive hold on wire and cable bundles. The head design guarantees high tensile strength and a low insertion force. The bent tail design allows quick and simple installations by hand. For high-volume applications, tensioning tools are available to ensure consistent and safe installation.

#### Features and Benefits

- Engineered and manufactured for maximum performance and quality.
- Made from 100% high-quality plastic to ensure efficient recycling.
- Inside serration for a strong grip onto bundles.
- Easy application either manually or with a tensioning tool.
- Bent tail allows for simpler insertion.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
T50R6C2*	T50R	50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66	Blue	100
T50R6M4*		50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66	Blue	1000
T50R1C2*		50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66	Brown	100
T50R1M4*		50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66	Brown	1000
T50R8C2*		50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66	Gray	100
T50R8M4*		50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66	Gray	1000
T50R5C2*		50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66	Green	100
T50R5M4*		50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66	Green	1000
T50R3C2*		50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66	Orange	100
T50R3M4*		50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66	Orange	1000
T50R7C2*		50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66	Purple	100
T50R7M4*		50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66	Purple	1000
T50R2C2*		50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66	Red	100
T50R2M4*		50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66	Red	1000
T50R10C2*		50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66	White	100
T50R10M4*		50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66	White	1000
T50R4C2*		50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66	Yellow	100
T50R4M4*		50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66	Yellow	1000

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.



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### Standard Cable Ties

#### T50L and T50R Series in Colors

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
T50L6C2*	T50L	50.0 (225.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA66	Blue	100
T50L6M4*		50.0 (225.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA66	Blue	1000
T50L1C2*		50.0 (225.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA66	Brown	100
T50L8C2*		50.0 (225.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA66	Gray	100
T50L8M4*		50.0 (225.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA66	Gray	1000
T50L5C2*		50.0 (225.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA66	Green	100
T50L5M4*		50.0 (225.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA66	Green	1000
T50L3C2*		50.0 (225.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA66	Orange	100
T50L3M4*		50.0 (225.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA66	Orange	1000
T50L2C2*		50.0 (225.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA66	Red	100
T50L2M4*		50.0 (225.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA66	Red	1000
T50L10C2*		50.0 (225.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA66	White	100
T50L10M4*		50.0 (225.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA66	White	1000
T50L4C2*		50.0 (225.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA66	Yellow	100
T50L4M4*		50.0 (225.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA66	Yellow	1000

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.



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# Bundling and Securing

## Cable Ties

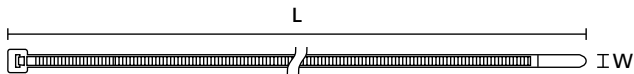
### Cable Ties in Special Materials

#### T18 - T150 Series, Heat Stabilized

HellermannTyton's heat stabilized cable ties provide excellent resistance when exposed to high heat. T-Series Cable Ties feature inside serrations to provide a positive hold on wire and cable bundles. The head design guarantees high tensile strength and a low insertion force. The bent tail design allows quick and simple installations by hand. For high-volume applications, tensioning tools are available to ensure consistent and safe installation.

#### Features and Benefits

- Heat-stabilized cable ties deliver high heat resistance.
- Inside serrations provide strong grip on cables and wire bundles.
- Easy application either manually or with a tensioning tool.
- Bent tail ensures a quick and simple installation.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
T1850HSM4*	T18S	18.0 (80.0)	3.3 (83.0)	0.6 (16.0)	0.1 (2.3)	PA66HS	Black	1000
T18R0HSC2*	T18R	18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66HS	Black	100
T18R0HSM4*		18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66HS	Black	1000
T18I0HSM4*	T18I	18.0 (80.0)	5.5 (140.0)	1.4 (35.0)	0.1 (2.5)	PA66HS	Black	1000
T18L0HSC2*	T18L	18.0 (80.0)	8.0 (203.2)	2.2 (55.0)	0.1 (2.5)	PA66HS	Black	100
T18L0HSM4*		18.0 (80.0)	8.0 (203.2)	2.2 (55.0)	0.1 (2.5)	PA66HS	Black	1000
T30R0HSC2*	T30R	30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66HS	Black	100
T30R0HSM4*		30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66HS	Black	1000
T30L0HSM4*	T30LL	30.0 (135.0)	11.4 (290.0)	3.2 (80.0)	0.1 (3.6)	PA66HS	Black	1000
T40R0HSM4*	T40R(U)	40.0 (180.0)	8.3 (212.0)	2.2 (55.9)	0.2 (4.0)	PA66HS	Black	1000
T40L0HSC2*	T40L	40.0 (180.0)	14.6 (370.0)	4.1 (104.9)	0.2 (4.0)	PA66HS	Black	100
T50R0HSC2*	T50R	50.0 (225.0)	8.0 (203.2)	2.0 (50.0)	0.2 (4.6)	PA66HS	Black	100
T50R0HSM4*		50.0 (225.0)	8.0 (203.2)	2.0 (50.0)	0.2 (4.6)	PA66HS	Black	1000
T50I0HSC2*	T50I	50.0 (225.0)	12.0 (305.0)	3.2 (81.3)	0.2 (4.6)	PA66HS	Black	100
T50I0HSM4*		50.0 (225.0)	12.0 (305.0)	3.2 (81.3)	0.2 (4.6)	PA66HS	Black	1000
T50L0HSC2*	T50L	50.0 (225.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA66HS	Black	100
T50L0HSM4*		50.0 (225.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA66HS	Black	1000

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. EVO9 and MK9P cannot be used with T18S cable ties. \*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

### Cable Ties in Special Materials

#### T18 - T150 Series, Heat Stabilized

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
T120S0HSH4*	T120S	120.0 (535.0)	8.9 (225.0)	2.2 (55.9)	0.3 (7.6)	PA66HS	Black	500
T120I0HSH4*	T120I	120.0 (535.0)	11.8 (300.0)	3.2 (81.3)	0.3 (7.6)	PA66HS	Black	500
T120R0HSK2*	T120R	120.0 (535.0)	15.2 (387.0)	4.1 (104.1)	0.3 (7.6)	PA66HS	Black	50
T120R0HSH4*		120.0 (535.0)	15.2 (387.0)	4.1 (104.1)	0.3 (7.6)	PA66HS	Black	500
T120L0HSK2*	T120L	120.0 (535.0)	30.0 (760.0)	8.9 (224.8)	0.3 (7.6)	PA66HS	Black	50
T150M0HSX2*	T150M	175.0 (780.0)	21.0 (530.0)	5.9 (150.0)	0.4 (8.9)	PA66HS	Black	25
T150XL0HSX2*	T150XL	175.0 (780.0)	43.1 (1,095.0)	13.0 (330.2)	0.4 (8.9)	PA66HS	Black	25

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. EVO9 and MK9P cannot be used with T18S cable ties. \*This product meets UL standards. Please see appendix for specific file numbers.



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# Bundling and Securing

## Cable Ties

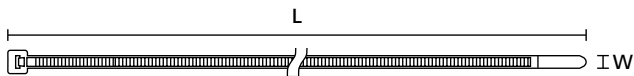
### Cable Ties in Special Materials

#### High-Temperature Ties in PA46

HellermannTyton's high-temperature cable ties provide excellent resistance in operating temperatures up to 275°F (135°C), while still maintaining tensile strength properties. T-Series Cable Ties feature inside serrations to provide a positive hold on wire and cable bundles. The head design guarantees high tensile strength and a low insertion force. The bent tail design allows quick and simple installations by hand. For high-volume applications, tensioning tools are available to ensure consistent and safe installation.

#### Features and Benefits

- PA46 cable ties deliver high heat resistance.
- Inside serrations provide strong grip on cables and wire bundles.
- Easy application either manually or with a tensioning tool.
- Bent tail ensures a quick and simple installation.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
111-00968	T30R	30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA46	Gray	100
111-01459		30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA46	Gray	1000
111-01703	T50R	50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA46	Brown	1000
111-01568		50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA46	Gray	1000
111-00815		50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA46	Natural	100
T50L15TNLM4	T50L	50.0 (225.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA46	Brown	1000
111-01619	T120I	120.0 (535.0)	11.8 (300.0)	3.2 (81.3)	0.3 (7.6)	PA46	Brown	500
111-00966	T150R(U)	175.0 (780.0)	15.4 (390.0)	4.1 (104.1)	0.4 (8.9)	PA46	Brown	25
111-00965	T150M	175.0 (780.0)	21.0 (530.0)	5.9 (150.0)	0.4 (8.9)	PA46	Brown	25

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

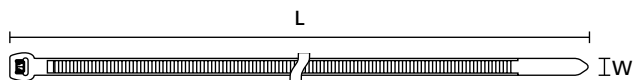
### Cable Ties in Special Materials

#### PEEK Cable Ties

PEEK Ties withstand temperatures from -67 to 464°F and provide excellent resistance to chemicals, acids, radiation and abrasion. The low-profile, contoured head takes up less space and protects sensitive wires running adjacent to it.

#### Features and Benefits

- Extreme temperature range for excellent performance in a range of environments.
- Low-profile, contoured head takes up less space and protects sensitive wires.
- Delivers the performance of a metal tie with the ease of use of plastic.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
118-00032	PT2A	52.0 (230.0)	5.7 (145.0)	1.4 (35.0)	0.1 (3.4)	PEEK	Beige	100
111-01235	PT220	85.0 (380.0)	8.7 (220.0)	2.2 (56.0)	0.2 (4.7)	PEEK	Beige	100

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.



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# Bundling and Securing

## Cable Ties

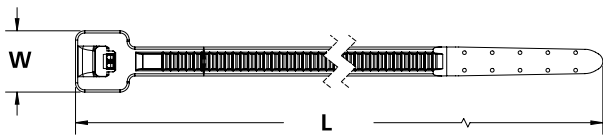
### Cable Ties in Special Materials

#### PAEK Cable Ties

HellermannTyton PAEK cable ties offer very high temperature resistance for use in demanding applications such as in engine compartments, near exhaust, 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.

#### Features and Benefits

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



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
111-01670	PAT100R	100.0 (445.0)	5.9 (149.9)	1.4 (35.0)	0.3 (8.0)	PAEK	Beige	100
111-01699	PAT100L	100.0 (445.0)	7.9 (200.7)	2.0 (50.8)	0.3 (8.0)	PAEK	Beige	100

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.



### Cable Ties in Special Materials

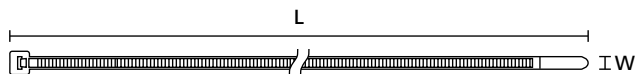
#### UV Stabilized Cable Ties

Used in the solar industry and other applications, HellermannTyton offers cable ties made of UV stabilized PA66UV material. This material provides additional protection against UV radiation for long-term outdoor use and is available in various styles, tensile strengths, and bundle diameters. T-Series Cable Ties feature inside serrations to provide a positive hold on wire and cable bundles. The head design guarantees high tensile strength and a low insertion force. The bent tail design allows quick and simple installations by hand. For high-volume applications, tensioning tools are available to ensure consistent and safe installation.



#### Features and Benefits

- UV stabilized cable ties are designed for extended use outdoors.
- Inside serrations provide strong grip on cables and wire bundles.
- Easy application either manually or with a tensioning tool.
- Bent tail ensures a quick and simple installation.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
T18R0UVM4*	T18R	18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66UV	Black	1000
T18R0UVC2*		18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66UV	Black	100
T30R0UVM4*	T30R	30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66UV	Black	1000
T30R0UVC2*		30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66UV	Black	100
T30L0UVM4*	T30L	30.0 (135.0)	7.8 (198.0)	2.0 (50.8)	0.1 (3.6)	PA66UV	Black	1000
T30L0UVC2*		30.0 (135.0)	7.8 (198.0)	2.0 (50.8)	0.1 (3.6)	PA66UV	Black	100
T50R0UVM4*	T50R	50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66UV	Black	1000
T50R0UVC2*		50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66UV	Black	100
T50I0UVC2*	T50I	50.0 (225.0)	12.0 (305.0)	3.2 (81.3)	0.2 (4.6)	PA66UV	Black	100
T50I0UVM4*		50.0 (225.0)	12.0 (305.0)	3.2 (81.3)	0.2 (4.6)	PA66UV	Black	1000
T50L0UVM4*	T50L	50.0 (225.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA66UV	Black	1000
T50L0UVC2*		50.0 (225.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA66UV	Black	100
T120S0UVC2*	T120S	120.0 (535.0)	8.9 (225.0)	2.2 (55.9)	0.3 (7.6)	PA66UV	Black	50
T120I0UVC2*	T120I	120.0 (535.0)	11.8 (300.0)	3.2 (81.3)	0.3 (7.6)	PA66UV	Black	50
T120R0UVM4*	T120R	120.0 (535.0)	15.2 (387.0)	4.1 (104.1)	0.3 (7.6)	PA66UV	Black	500
T120R0UVC2*		120.0 (535.0)	15.2 (387.0)	4.1 (104.1)	0.3 (7.6)	PA66UV	Black	100
T120L0UVC2*	T120L	120.0 (535.0)	30.0 (760.0)	8.9 (224.8)	0.3 (7.6)	PA66UV	Black	50

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.



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# Bundling and Securing

## Cable Ties

### Cable Ties in Special Materials

#### UV Stabilized Cable Ties

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
T150R0UVX2*	T150R(U)	175.0 (780.0)	15.4 (390.0)	4.1 (104.1)	0.4 (8.9)	PA66UV	Black	25
T150M0UVX2*	T150M	175.0 (780.0)	21.0 (530.0)	5.9 (150.0)	0.4 (8.9)	PA66UV	Black	25
T150L0UVX2*	T150L	175.0 (780.0)	32.3 (820.0)	9.6 (243.8)	0.4 (8.9)	PA66UV	Black	25
T150LL0UVX2*	T150LL	175.0 (780.0)	36.4 (925.0)	10.8 (274.3)	0.4 (8.9)	PA66UV	Black	25
T150XL0UVX2*	T150XL	175.0 (780.0)	43.1 (1,095.0)	13.0 (330.2)	0.4 (8.9)	PA66UV	Black	25
T150XLL0UVX2*	T150XLL	175.0 (780.0)	52.2 (1,325.0)	16.0 (406.4)	0.4 (8.9)	PA66UV	Black	25
111-00925*	T250M	250.0 (1,115.0)	22.3 (565.3)	5.9 (150.0)	0.5 (12.4)	PA66UV	Black	25

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.



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### Cable Ties in Special Materials

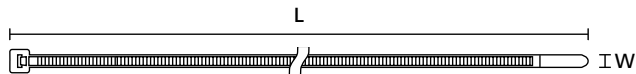
#### High Impact, Heat and UV Stabilized Cable Ties

Manufactured from a specially formulated impact-resistant, heat and UV stabilized PA66 material, these cable ties offer increased flexibility, impact strength, heat and UV resistance to endure moisture fluctuations. T-Series Cable Ties feature inside serrations to provide a positive hold on wire and cable bundles. The head design guarantees high tensile strength and a low insertion force. The bent tail design allows quick and simple installations by hand. For high-volume applications, tensioning tools are available to ensure consistent and safe installation.



#### Features and Benefits

- High impact, heat and UV stabilized cable ties contain an impact modifier allowing greater flexibility and greater resistance to vibration.
- Inside serrations allow for strong grip on cables and wire bundles.
- Head design provides high tensile strength with very low insertion force.
- Bent tail ensures a quick and simple installation.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
T30R0HIRM4*	T30R	30.0 (135.0)	5.8 (148.0)	1.4 (35.0)	0.1 (3.6)	PA66HIRHSUV	Black	1000
T50R0HIRM4*	T50R	50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66HIRHSUV	Black	1000
111-00931*		50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66HIRHSUV	Black	500
111-01601*	T50I	50.0 (225.0)	12.0 (305.0)	3.2 (81.3)	0.2 (4.6)	PA66HIRHSUV	Black	1000
111-01128*	T50L	50.0 (225.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA66HIRHSUV	Black	1000
111-01138*	T120S	120.0 (535.0)	8.9 (225.0)	2.2 (55.9)	0.3 (7.6)	PA66HIRHSUV	Black	500
T120I0HIRUVH4*	T120I	120.0 (535.0)	11.8 (300.0)	3.2 (81.3)	0.3 (7.6)	PA66HIRHSUV	Black	500
T250R0HIRUVX2*	T250R	250.0 (1,115.0)	20.3 (515.0)	4.9 (124.5)	0.5 (12.4)	PA66HIRHSUV	Black	25
111-01196*	T250M	250.0 (1,115.0)	22.3 (565.3)	5.9 (150.0)	0.5 (12.4)	PA66HIRHSUV	Black	25
111-01126*	T250XL	250.0 (1,115.0)	40.6 (1,030.0)	12.0 (304.8)	0.5 (12.4)	PA66HIRHSUV	Black	25

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.



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# Bundling and Securing

## Cable Ties

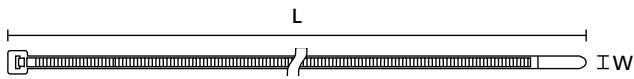
### Cable Ties in Special Materials

#### PA12 Ties

These inside serrated cable ties are manufactured from PA12, which provides excellent UV, chemical and moisture resistance to allow for a longer lifespan in outdoor use. PA12 material absorbs slightly less moisture than PA11, yet is equally resistant to metal oxides. T-Series Cable Ties feature inside serrations to provide a positive hold on wire and cable bundles. The head design guarantees high tensile strength and a low insertion force. The bent tail allows quick and simple installation by hand. For high-volume applications, tensioning tools are available to ensure consistent and safe installation.

#### Features and Benefits

- PA12 cable ties deliver excellent UV, chemical and moisture resistance.
- Inside serrations provide strong grip on cables and wire bundles.
- Easy application either manually or with a tensioning tool.
- Bent tail ensures a quick and simple installation.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
111-01564	T50R	45.0 (200.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA12	Black	1000
111-01560		45.0 (200.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA12	Black	100
111-01562	T50L(US)	45.0 (200.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA12	Black	100
111-01561		45.0 (200.0)	15.4 (390.0)	4.3 (109.2)	0.2 (4.8)	PA12	Black	1000
111-01563	T50XL(US)	45.0 (200.0)	18.4 (467.6)	5.3 (134.0)	0.2 (4.8)	PA12	Black	100
111-01752	T150M	175.0 (780.0)	21.0 (530.0)	5.9 (150.0)	0.4 (8.9)	PA12	Black	25

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

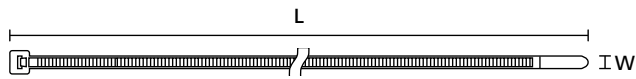
### Cable Ties in Special Materials

#### T18 - T50 Series, Flame Retardant

HellermannTyton's flame retardant cable ties meet the UL 94 V-0 flammability requirements. T-Series Cable Ties feature inside serrations to provide a positive hold on wire and cable bundles. The head design guarantees high tensile strength and a low insertion force. The bent tail design allows quick and simple installations by hand. For high-volume applications, tensioning tools are available to ensure consistent and safe installation.

#### Features and Benefits

- Feature a UL 94 V-0 rating to comply with low flame and smoke requirements.
- Inside serrations provide strong grip on cables and wire bundles.
- Easy application either manually or with a tensioning tool.
- Bent tail ensures a quick and simple installation.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
T18R0VOC2*	T18R	18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66V0	Black	100
T18R9VOM4*		18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66V0	Natural	1000
T18R9VOC2*		18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66V0	Natural	100
T18I9VOM4*	T18I	18.0 (80.0)	5.5 (140.0)	1.4 (35.0)	0.1 (2.5)	PA66V0	Natural	1000
T18L0VOC2*	T18L	18.0 (80.0)	8.0 (205.0)	2.2 (55.0)	0.1 (2.5)	PA66V0	Black	100
T18L9VOM4*		18.0 (80.0)	8.0 (205.0)	2.2 (55.0)	0.1 (2.5)	PA66V0	Natural	1000
T30R0VOC2*	T30R	30.0 (135.0)	6.0 (150.0)	1.4 (35.0)	0.1 (3.6)	PA66V0	Black	100
T50R9VOM4*	T50R	50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66V0	Natural	1000
T50R9VOC2*		50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66V0	Natural	100
T50I0VOC2*	T50I	50.0 (225.0)	12.0 (305.0)	3.2 (81.3)	0.2 (4.6)	PA66V0	Black	100
T50I9VOM4*		50.0 (225.0)	12.0 (305.0)	3.2 (81.3)	0.2 (4.6)	PA66V0	Natural	1000
T50I9VOC2*		50.0 (225.0)	12.0 (305.0)	3.2 (81.3)	0.2 (4.6)	PA66V0	Natural	100

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.



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# Bundling and Securing

## Cable Ties

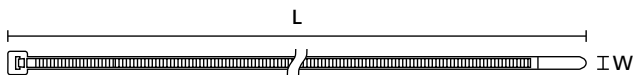
### Cable Ties in Special Materials

#### T18 - T120 Series, Polypropylene

HellermannTyton's polypropylene cable ties offer added resistance to most chemicals. T-Series Cable Ties feature inside serrations to provide a positive hold on wire and cable bundles. The head design guarantees high tensile strength and a low insertion force. The bent tail design allows quick and simple installations by hand. For high-volume applications, tensioning tools are available to ensure consistent and safe installation.

#### Features and Benefits

- Polypropylene cable ties deliver excellent resistance to chemicals and salts.
- Inside serrations provide strong grip on cables and wire bundles.
- Easy application either manually or with a tensioning tool.
- Bent tail ensures a quick and simple installation.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
T18R0PPC2	T18R	8.0 (36.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PP	Black	100
T18R9PPM4		8.0 (36.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PP	Natural	1000
T30R9PPC2	T30R	20.0 (89.0)	6.0 (150.0)	1.4 (35.0)	0.1 (3.6)	PP	Natural	100
T50R0PPM4	T50R	25.0 (111.0)	8.0 (202.0)	1.8 (44.5)	0.2 (4.6)	PP	Black	1000
T50R0PPC2		25.0 (111.0)	8.0 (202.0)	1.8 (44.5)	0.2 (4.6)	PP	Black	100
T50R9PPC2		25.0 (111.0)	8.0 (202.0)	1.8 (44.5)	0.2 (4.6)	PP	Natural	100
T120S0PPH4	T120S	60.0 (267.0)	8.9 (225.0)	2.2 (55.9)	0.3 (7.6)	PP	Black	500
T120R0PPK2	T120R	60.0 (267.0)	15.2 (387.0)	4.1 (104.1)	0.3 (7.6)	PP	Black	50
T120R0PPH4		60.0 (267.0)	15.2 (387.0)	4.1 (104.1)	0.3 (7.6)	PP	Black	500

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

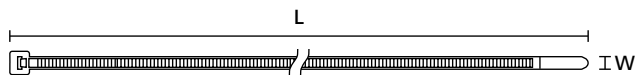
### Cable Ties in Special Materials

#### 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. T-Series Cable Ties feature inside serrations to provide a positive hold on wire and cable bundles. The head design guarantees high tensile strength and a low insertion force. The bent tail design allows quick and simple installations by hand. For high-volume applications, tensioning tools are available to ensure consistent and safe installation.

#### Features and Benefits

- ETFE cable ties provide excellent resistance to chemicals, radiation, high temperatures and UV exposure.
- Inside serrations allows for strong grip on cables and wire bundles.
- Head design provides high tensile strength with very low insertion force.
- Bent tail ensures a quick and simple installation.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
111-00659*	T18R	18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	E/TFE	Blue	100
111-00698*	T30R	30.0 (133.3)	6.0 (150.0)	1.4 (36.0)	0.1 (3.5)	E/TFE	Blue	100
111-00732*	T50R	50.0 (222.3)	8.0 (202.0)	2.0 (50.0)	0.2 (4.7)	E/TFE	Blue	100
111-00718*	T50L	50.0 (222.3)	15.0 (382.0)	4.1 (105.0)	0.2 (4.7)	E/TFE	Blue	100
111-01125*	T120R	120.0 (535.0)	15.2 (387.0)	4.1 (105.0)	0.3 (7.4)	E/TFE	Blue	50

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.



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# Bundling and Securing

## Cable Ties

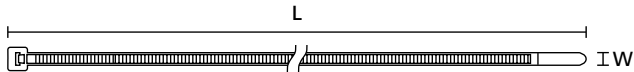
### Cable Ties in Special Materials

#### Halar Cable Ties

The raw material used to manufacture HellermannTyton Halar cable ties is UL 94 V-0 rated. The Halar ties come in a distinct red color for easy identification. T-Series Cable Ties feature inside serrations to provide a positive hold on wire and cable bundles. The head design guarantees high tensile strength and a low insertion force. The bent tail design allows quick and simple installations by hand. For high-volume applications, tensioning tools are available to ensure consistent and safe installation.

#### Features and Benefits

- Halar cable ties feature a UL 94 V-0 rating to comply with low flame and smoke requirements.
- Inside serrations provide strong grip on cables and wire bundles.
- Easy application either manually or with a tensioning tool.
- Bent tail ensures a quick and simple installation.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
T18R2HALM4	T18R	18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	E/CTFE	Red	1000
T18R2HALC2		18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	E/CTFE	Red	100
T50R2HALM4	T50R	40.0 (180.0)	8.0 (202.0)	1.8 (44.5)	0.2 (5.1)	E/CTFE	Red	1000
T50R2HALC2		40.0 (180.0)	8.0 (202.0)	1.8 (44.5)	0.2 (5.1)	E/CTFE	Red	100

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.  
 Note: Halar ties are also available in natural color, contact HellermannTyton for availability. Halar is a registered trademark of Solvay S.A.



### Cable Ties in Special Materials

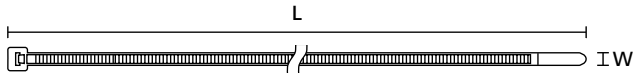
#### Metal Content Ties

HellermannTyton's Metal Content Tie is specifically designed for the food, beverage and pharmaceutical processing industries to meet the safety standards set by the Hazardous Analysis of Critical Control Point (HACCP) to minimize the risk of contamination. The tie is nylon-based with metal content dispersed throughout the head and strap allowing any part of the tie to be identified by metal detectors or X-ray inspections. It is ideally suited for the management of cables and tubing in processing and packaging areas. The plastic tie can be identified in food and other products that have been contaminated either through human error or malfunctioning machinery.



#### Features and Benefits

- 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 reduces the risk of contamination.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
111-01225	MCT18R	18.0 (80.0)	4.0 (100.0)	0.9 (22.0)	0.1 (2.5)	PA66MP	Blue	100
111-01664	MCTPP18R	19.0 (85.0)	3.9 (100.0)	0.9 (22.0)	0.1 (2.5)	PPMP	Blue	100
111-01665	MCTPP30R	29.0 (130.0)	5.9 (150.0)	1.4 (35.0)	0.1 (3.5)	PPMP	Blue	100
111-00829	MCT30R	30.0 (135.0)	6.0 (150.0)	1.4 (35.0)	0.1 (3.5)	PA66MP	Blue	100
111-01386	MCTS200	31.5 (140.0)	7.9 (201.0)	2.0 (50.0)	0.2 (4.7)	PPMP+	Blue	100
111-01666	MCTPP50R	33.7 (150.0)	8.0 (200.0)	2.0 (50.0)	0.2 (4.6)	PPMP	Blue	100
111-01667	MCTPP50L	33.7 (150.0)	15.0 (390.0)	4.3 (110.0)	0.2 (4.6)	PPMP	Blue	100
111-00830	MCT50R	50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	0.2 (4.6)	PA66MP	Blue	100
111-00937	MCTRELK2M	50.0 (225.0)	9.8 (250.0)	2.6 (65.0)	0.2 (4.6)	PA66MP	Blue	100
111-00831	MCT50L	50.0 (225.0)	15.0 (380.0)	4.3 (110.0)	0.2 (4.7)	PA66MP	Blue	100
111-01668	MCTPP120R	85.4 (380.0)	15.2 (387.0)	3.9 (100.0)	0.3 (7.6)	PPMP	Blue	100
111-01136	MCT120R	120.0 (535.0)	15.2 (387.0)	3.9 (100.0)	0.3 (7.6)	PA66MP	Blue	100

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

# Bundling and Securing

## Cable Ties

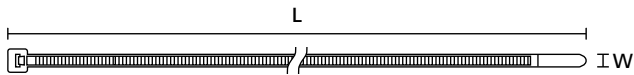
### Heavy-Duty Cable Ties

#### T120 Series

Heavy-Duty T-Series Cable Ties feature inside serrations to provide a positive hold on wire and cable bundles. Durable head design guarantees high tensile strength and a low insertion force. The bent tail allows quick and simple installations by hand. For high-volume applications, tensioning tools are available to ensure consistent and safe installation.

#### Features and Benefits

- Engineered and manufactured for maximum performance and quality.
- Made from 100% high-quality plastic to ensure efficient recycling.
- Inside serration for a strong grip onto bundles.
- Easy application either manually or with a tensioning tool.
- Bent tail allows for simpler insertion.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
T120S0H4*	T120S	120.0 (535.0)	8.9 (225.0)	2.2 (55.9)	0.3 (7.6)	PA66	Black	500
T120S0K2*		120.0 (535.0)	8.9 (225.0)	2.2 (55.9)	0.3 (7.6)	PA66	Black	50
T120S9K2*		120.0 (535.0)	8.9 (225.0)	2.2 (55.9)	0.3 (7.6)	PA66	Natural	50
T120S9H4*		120.0 (535.0)	8.9 (225.0)	2.2 (55.9)	0.3 (7.6)	PA66	Natural	500
T120I0H4*	T120I	120.0 (535.0)	11.8 (300.0)	3.2 (81.3)	0.3 (7.6)	PA66	Black	500
T120I0K2*		120.0 (535.0)	11.8 (300.0)	3.2 (81.3)	0.3 (7.6)	PA66	Black	50
T120I9H4*		120.0 (535.0)	11.8 (300.0)	3.2 (81.3)	0.3 (7.6)	PA66	Natural	500
T120I9K2*		120.0 (535.0)	11.8 (300.0)	3.2 (81.3)	0.3 (7.6)	PA66	Natural	50
T120R0H4*	T120R	120.0 (535.0)	15.2 (387.0)	4.1 (104.1)	0.3 (7.6)	PA66	Black	500
T120R0K2*		120.0 (535.0)	15.2 (387.0)	4.1 (104.1)	0.3 (7.6)	PA66	Black	50
T120R9H4*		120.0 (535.0)	15.2 (387.0)	4.1 (104.1)	0.3 (7.6)	PA66	Natural	500
T120R9K2*		120.0 (535.0)	15.2 (387.0)	4.1 (104.1)	0.3 (7.6)	PA66	Natural	50
T120L0K2*	T120L	120.0 (535.0)	30.0 (760.0)	8.9 (224.8)	0.3 (7.6)	PA66	Black	50
T120L9K2*		120.0 (535.0)	30.0 (760.0)	8.9 (224.8)	0.3 (7.6)	PA66	Natural	50

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Installation tools: EVO9, EVO9HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.



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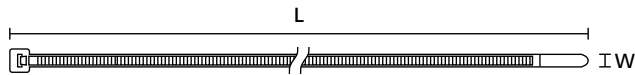
### Heavy-Duty Cable Ties

#### T150 Series

Heavy-Duty T-Series Cable Ties feature inside serrations to provide a positive hold on wire and cable bundles. Durable head design guarantees high tensile strength and a low insertion force. The bent tail allows quick and simple installations by hand. For high-volume applications, tensioning tools are available to ensure consistent and safe installation.

#### Features and Benefits

- Engineered and manufactured for maximum performance and quality.
- Made from 100% high-quality plastic to ensure efficient recycling.
- Inside serration for a strong grip onto bundles.
- Easy application either manually or with a tensioning tool.
- Bent tail allows for simpler insertion.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
T150R0X2*	T150R(U)	175.0 (780.0)	15.4 (390.0)	4.1 (104.1)	0.4 (8.9)	PA66	Black	25
T150R9X2*		175.0 (780.0)	15.4 (390.0)	4.1 (104.1)	0.4 (8.9)	PA66	Natural	25
T150M0X2*	T150M	175.0 (780.0)	21.0 (530.0)	5.9 (150.0)	0.4 (8.9)	PA66	Black	25
T150M9X2*		175.0 (780.0)	21.0 (530.0)	5.9 (150.0)	0.4 (8.9)	PA66	Natural	25
T150L0X2*	T150L	175.0 (780.0)	32.3 (820.0)	9.6 (243.8)	0.4 (8.9)	PA66	Black	25
T150L9X2*		175.0 (780.0)	32.3 (820.0)	9.6 (243.8)	0.4 (8.9)	PA66	Natural	25
T150LL0X2*	T150LL	175.0 (780.0)	36.4 (925.0)	10.8 (274.3)	0.4 (8.9)	PA66	Black	25
T150LL9X2*		175.0 (780.0)	36.4 (925.0)	10.8 (274.3)	0.4 (8.9)	PA66	Natural	25
T150XL0X2*	T150XL	175.0 (780.0)	43.1 (1,095.0)	13.0 (330.2)	0.4 (8.9)	PA66	Black	25
T150XL9X2*		175.0 (780.0)	43.1 (1,095.0)	13.0 (330.2)	0.4 (8.9)	PA66	Natural	25
T150XLL0X2*	T150XLL	175.0 (780.0)	52.2 (1,325.0)	16.0 (406.4)	0.4 (8.9)	PA66	Black	25
T150XLL9X2*		175.0 (780.0)	52.2 (1,325.0)	16.0 (406.4)	0.4 (8.9)	PA66	Natural	25

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Installation tools: EVO9, EVO9HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.



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# Bundling and Securing

## Cable Ties

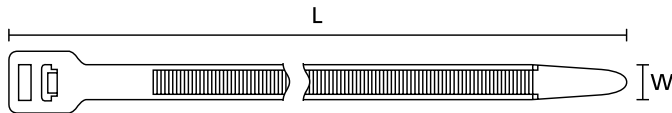
### Heavy-Duty Cable Ties

#### 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.) T-Series Cable Ties feature inside serrations to provide a positive hold on wire and cable bundles. The head design guarantees high tensile strength and a low insertion force. The bent tail design allows quick and simple installations by hand. For high-volume applications, tensioning tools are available to ensure consistent and safe installation.

#### Features and Benefits

- Engineered and manufactured for maximum performance and quality.
- Made from 100% high-quality plastic to ensure efficient recycling.
- Inside serration for a strong grip onto bundles.
- Easy application either manually or with a tensioning tool.
- Bent tail allows for simpler insertion.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
T250S0X2*	T250S	250.0 (1,115.0)	9.1 (230.0)	2.0 (50.0)	0.5 (12.4)	PA66	Black	25
T250S9X2*		250.0 (1,115.0)	9.1 (230.0)	2.0 (50.0)	0.5 (12.4)	PA66	Natural	25
T250R0X2*	T250R	250.0 (1,115.0)	20.3 (515.0)	4.9 (124.5)	0.5 (12.4)	PA66	Black	25
T250R9X2*		250.0 (1,115.0)	20.3 (515.0)	4.9 (124.5)	0.5 (12.4)	PA66	Natural	25
T250M0X2*	T250M	250.0 (1,115.0)	22.3 (565.3)	5.9 (150.0)	0.5 (12.4)	PA66	Black	25
T250M9X2*		250.0 (1,115.0)	22.3 (565.3)	5.9 (150.0)	0.5 (12.4)	PA66	Natural	25
T250I0X2*	T250I	250.0 (1,115.0)	28.7 (730.0)	8.0 (203.0)	0.5 (12.4)	PA66	Black	25
T250I9X2*		250.0 (1,115.0)	28.7 (730.0)	8.0 (203.0)	0.5 (12.4)	PA66	Natural	25
T250L0X2*	T250L	250.0 (1,115.0)	34.7 (880.0)	10.0 (254.0)	0.5 (12.4)	PA66	Black	25
T250L9X2*		250.0 (1,115.0)	34.7 (880.0)	10.0 (254.0)	0.5 (12.4)	PA66	Natural	25
T250XL0X2*	T250XL	250.0 (1,115.0)	40.6 (1,030.0)	12.0 (305.0)	0.5 (12.4)	PA66	Black	25
T250XL9X2*		250.0 (1,115.0)	40.6 (1,030.0)	12.0 (305.0)	0.5 (12.4)	PA66	Natural	25

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO9, EVO9HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.



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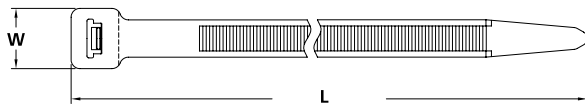
### Heavy-Duty Cable Ties

#### T255 Series

HellermannTyton's T255 series heavy duty cable ties are ideal for bundles demanding a strong cable tie that may also require a higher impact resistance than the T250 series. These ties have a tensile strength of 250 lbs. Heavy-Duty T-Series Cable Ties feature inside serrations to provide a positive hold on wire and cable bundles. Durable head design guarantees high tensile strength and a low insertion force. The bent tail allows quick and simple installations by hand. For high-volume applications, tensioning tools are available to ensure consistent and safe installation.

#### Features and Benefits

- Engineered and manufactured for maximum performance and quality.
- Made from 100% high-quality plastic to ensure efficient recycling.
- Inside serration for a strong grip onto bundles.
- Easy application either manually or with a tensioning tool.
- Bent tail allows for simpler insertion.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
T255S0HIRX2*	T255S	250.0 (1,115.0)	8.9 (225.0)	2.2 (55.9)	0.5 (12.7)	PA66HIRHSUV	Black	25
T255R0HIRX2*	T255R	250.0 (1,115.0)	20.0 (508.0)	5.0 (127.0)	0.5 (12.7)	PA66HIRHSUV	Black	25
T255M0HIRX2*	T255M	250.0 (1,115.0)	22.0 (560.0)	6.3 (160.0)	0.5 (12.7)	PA66HIRHSUV	Black	25

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 Installation tools: EVO9, EVO9HT, MK95P, MK9HT. \*This product meets UL standards. Please see appendix for specific file numbers.

# Bundling and Securing

## Cable Ties

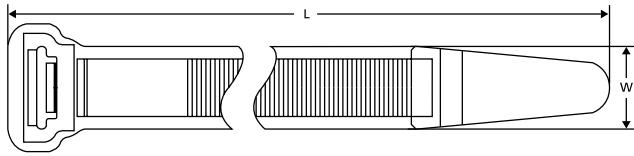
### Wide Strap Cable Ties

#### Wide Strap Heavy Duty Cable Ties

The Heavy Duty Wide-Strap Cable Tie was designed to minimize the pinching of soft bundles and the potential of lateral movement along the bundle. The low-profile head and underside clamping rails increase the grip around the bundle and provide a better fit than traditional cable ties. These are used primarily in the trucking and heavy equipment industries, but can be used in a wide variety of applications where strength is needed.

#### Features and Benefits

- Wide strap is designed to minimize pinching of soft hoses and convoluted tubing.
- Low-profile head with clamping rails provide compact bundling with a full circumferential compression around bundles.
- Wider and thinner strap design increases flexibility, provides low insertion and minimizes pinching of bundles.
- Bent tail allows for quick insertion into head or mounts.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
111-12300	WSS	120.0 (535.0)	9.1 (231.0)	2.2 (58.4)	0.5 (12.7)	PA66HIRHSUV	Black	300
111-12301	WSI	120.0 (535.0)	12.1 (307.0)	3.2 (83.8)	0.5 (12.7)	PA66HIRHSUV	Black	300
111-12302	WSR	120.0 (535.0)	15.1 (383.5)	4.1 (104.1)	0.5 (12.7)	PA66HIRHSUV	Black	300

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO9, EVO9HT, MK9SP, MK9HT.

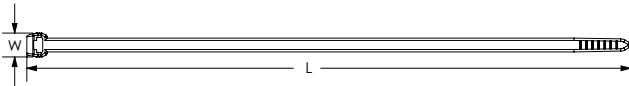
### Outside Serrated Cable Ties

#### T18ROS - T50LOS Series in Black

HellermannTyton outside serrated cable ties are designed with a smooth inside surface to help minimize indentation or damage to wire and cable insulation, while offering high tensile strength and low insertion force. The contour style head takes up less space than traditional style cable ties making it ideal for space constrained areas. For high volume applications, tensioning tools are available to ensure consistent and safe installation.

#### Features and Benefits

- Outside serrations minimize damage to cables, while still providing high tensile strength and low insertion force.
- Contour style head design provides additional space in constrained areas.
- Heat stabilized material provides excellent resistance to high heat exposures.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
118-04700	T18ROS	18.0 (80.0)	4.0 (100.0)	0.8 (20.0)	0.1 (2.5)	PA66HS	Black	100
118-04800	T30ROS	30.0 (135.0)	5.7 (145.0)	1.4 (35.0)	0.1 (3.4)	PA66HS	Black	100
118-04900	T30LOS	30.0 (135.0)	8.0 (200.0)	2.0 (50.0)	0.1 (3.4)	PA66HS	Black	100
118-05850	T50SOS	50.0 (225.0)	5.9 (150.0)	1.4 (35.0)	0.2 (4.6)	PA66HS	Black	100
118-00110		50.0 (225.0)	5.9 (150.0)	1.4 (35.0)	0.2 (4.6)	PA66HS	Black	1000
118-05050	T50ROS	50.0 (225.0)	8.0 (200.0)	2.0 (50.0)	0.2 (4.6)	PA66HS	Black	100
118-00111		50.0 (225.0)	8.0 (200.0)	2.0 (50.0)	0.2 (4.6)	PA66HS	Black	1000
118-05900	T50LOS	50.0 (225.0)	15.2 (384.0)	4.3 (110.0)	0.2 (4.6)	PA66HS	Black	100

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

# Bundling and Securing

## Cable Ties

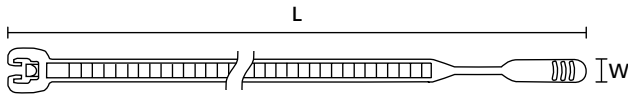
### Cable Ties with Open Head

#### Q-Ties in PA66

Q-Ties have a distinctive open-style head, a pre-lock function, and a large ribbed tail. The easily detectable slot opening offered with the tail and tie head provides ease of placement when working with gloves or for blind applications with limited view of the installation. The pre-lock feature allows for temporary holding of cable and wire bundles, permitting additional cables and wires to be placed without destroying the cable tie. Q-Ties can be tensioned by hand or with one of HellermannTyton's mechanical cable tie application tools.

#### Features and Benefits

- Open-head design with easily detectable slot opening allows for swift and easy insertion.
- Pre-lock feature allows for a temporary hold.
- The large ribbed tail permits an ergonomic installation.
- Two rails on the strap ensure guidance through the cable tie head.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
109-00030*	Q18R	18.0 (80.0)	4.1 (105.0)	0.9 (24.0)	0.1 (2.6)	PA66	Black	100
109-00001*		18.0 (80.0)	4.1 (105.0)	0.9 (24.0)	0.1 (2.6)	PA66	Natural	100
109-00033*	Q18I	18.0 (80.0)	6.1 (155.0)	1.6 (40.0)	0.1 (2.6)	PA66	Black	100
109-00004*		18.0 (80.0)	6.1 (155.0)	1.6 (40.0)	0.1 (2.6)	PA66	Natural	100
109-00036*	Q18L	18.0 (80.0)	7.7 (195.0)	2.0 (50.0)	0.1 (2.6)	PA66	Black	100
109-00007*		18.0 (80.0)	7.7 (195.0)	2.0 (50.0)	0.1 (2.6)	PA66	Natural	100
109-00039*	Q30R	30.0 (130.0)	6.3 (160.0)	1.5 (38.0)	0.1 (3.6)	PA66	Black	100
109-00010*		30.0 (130.0)	6.3 (160.0)	1.5 (38.0)	0.1 (3.6)	PA66	Natural	100
109-00041*	Q30L	30.0 (130.0)	7.9 (200.0)	2.0 (50.0)	0.1 (3.6)	PA66	Black	100
109-00012*		30.0 (130.0)	7.9 (200.0)	2.0 (50.0)	0.1 (3.6)	PA66	Natural	100
109-00043	Q30LR	30.0 (130.0)	9.8 (250.0)	2.6 (65.0)	0.1 (3.6)	PA66	Black	100
109-00014		30.0 (130.0)	9.8 (250.0)	2.6 (65.0)	0.1 (3.6)	PA66	Natural	100

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.



### Cable Ties with Open Head

#### Q-Ties in PA66

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
109-00047*	Q50R	50.0 (220.0)	8.3 (210.0)	2.0 (50.0)	0.2 (4.7)	PA66	Black	100
109-00018*		50.0 (220.0)	8.3 (210.0)	2.0 (50.0)	0.2 (4.7)	PA66	Natural	100
109-00049*	Q50I	50.0 (220.0)	11.4 (290.0)	3.0 (75.0)	0.2 (4.7)	PA66	Black	100
109-00020*		50.0 (220.0)	11.4 (290.0)	3.0 (75.0)	0.2 (4.7)	PA66	Natural	100
109-00051*	Q50L	50.0 (220.0)	16.1 (410.0)	4.3 (110.0)	0.2 (4.7)	PA66	Black	100
109-00022*		50.0 (220.0)	16.1 (410.0)	4.3 (110.0)	0.2 (4.7)	PA66	Natural	100
109-00053*	Q120I	120.0 (530.0)	11.8 (300.0)	2.8 (70.0)	0.3 (7.7)	PA66	Black	100
109-00024*		120.0 (530.0)	11.8 (300.0)	2.8 (70.0)	0.3 (7.7)	PA66	Natural	100
109-00055*	Q120R	120.0 (530.0)	16.5 (420.0)	4.3 (110.0)	0.3 (7.7)	PA66	Black	100
109-00026*		120.0 (530.0)	16.5 (420.0)	4.3 (110.0)	0.3 (7.7)	PA66	Natural	100
109-00057*	Q120M	120.0 (530.0)	20.5 (520.0)	5.1 (130.0)	0.3 (7.7)	PA66	Black	100
109-00028*		120.0 (530.0)	20.5 (520.0)	5.1 (130.0)	0.3 (7.7)	PA66	Natural	100

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.

# Bundling and Securing

## Cable Ties

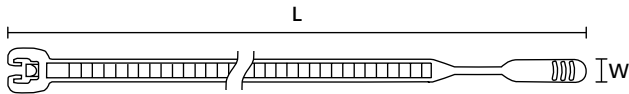
### Cable Ties with Open Head

#### Q-Ties in Heat Stabilized PA66HS

Q-Ties have a distinctive open-style head, a pre-lock function, and a large ribbed tail. The easily detectable slot opening offered with the tail and tie head provides ease of placement when working with gloves or for blind applications with limited view of the installation. The pre-lock feature allows for temporary holding of cable and wire bundles, permitting additional cables and wires to be placed without destroying the cable tie. Q-Ties can be tensioned by hand or with one of HellermannTyton's mechanical cable tie application tools.

#### Features and Benefits

- PA66HS cable ties are heat stabilized for excellent heat resistance.
- Open-head design with easily detectable slot opening allows for fast and easy insertion.
- Pre-lock feature allows for a temporary hold while preparing bundle.
- Large ribbed tail ensures simple, ergonomic installation.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
109-00088*	Q18R	18.0 (80.0)	4.1 (105.0)	0.9 (24.0)	0.1 (2.6)	PA66HS	Black	100
109-00117*		18.0 (80.0)	4.1 (105.0)	0.9 (24.0)	0.1 (2.6)	PA66HS	Natural	100
109-00091*	Q18I	18.0 (80.0)	6.1 (155.0)	1.6 (40.0)	0.1 (2.6)	PA66HS	Black	100
109-00120*		18.0 (80.0)	6.1 (155.0)	1.6 (40.0)	0.1 (2.6)	PA66HS	Natural	100
109-00094*	Q18L	18.0 (80.0)	7.7 (195.0)	2.0 (50.0)	0.1 (2.6)	PA66HS	Black	100
109-00123*		18.0 (80.0)	7.7 (195.0)	2.0 (50.0)	0.1 (2.6)	PA66HS	Natural	100
109-00097*	Q30R	30.0 (130.0)	6.3 (160.0)	1.5 (38.0)	0.1 (3.6)	PA66HS	Black	100
109-00126*		30.0 (130.0)	6.3 (160.0)	1.5 (38.0)	0.1 (3.6)	PA66HS	Natural	100
109-00099*	Q30L	30.0 (130.0)	7.9 (200.0)	2.0 (50.0)	0.1 (3.6)	PA66HS	Black	100
109-00128*		30.0 (130.0)	7.9 (200.0)	2.0 (50.0)	0.1 (3.6)	PA66HS	Natural	100
109-00101	Q30LR	30.0 (130.0)	9.8 (250.0)	2.6 (65.0)	0.1 (3.6)	PA66HS	Black	100
109-00130		30.0 (130.0)	9.8 (250.0)	2.6 (65.0)	0.1 (3.6)	PA66HS	Natural	100

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.



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### Cable Ties with Open Head

#### Q-Ties in Heat Stabilized PA66HS

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
109-00105*	Q50R	50.0 (220.0)	8.3 (210.0)	2.0 (50.0)	0.2 (4.7)	PA66HS	Black	100
109-00134*		50.0 (220.0)	8.3 (210.0)	2.0 (50.0)	0.2 (4.7)	PA66HS	Natural	100
109-00107*	Q50I	50.0 (220.0)	11.4 (290.0)	3.0 (75.0)	0.2 (4.7)	PA66HS	Black	100
109-00136*		50.0 (220.0)	11.4 (290.0)	3.0 (75.0)	0.2 (4.7)	PA66HS	Natural	100
109-00109*	Q50L	50.0 (220.0)	16.1 (410.0)	4.3 (110.0)	0.2 (4.7)	PA66HS	Black	100
109-00138*		50.0 (220.0)	16.1 (410.0)	4.3 (110.0)	0.2 (4.7)	PA66HS	Natural	100
109-00111*	Q120I	120.0 (530.0)	11.8 (300.0)	2.8 (70.0)	0.3 (7.7)	PA66HS	Black	100
109-00140*		120.0 (530.0)	11.8 (300.0)	2.8 (70.0)	0.3 (7.7)	PA66HS	Natural	100
109-00113*	Q120R	120.0 (530.0)	16.5 (420.0)	4.3 (110.0)	0.3 (7.7)	PA66HS	Black	100
109-00142*		120.0 (530.0)	16.5 (420.0)	4.3 (110.0)	0.3 (7.7)	PA66HS	Natural	100
109-00115*	Q120M	120.0 (530.0)	20.5 (520.0)	5.1 (130.0)	0.3 (7.7)	PA66HS	Black	100
109-00144*		120.0 (530.0)	20.5 (520.0)	5.1 (130.0)	0.3 (7.7)	PA66HS	Natural	100

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.

# Bundling and Securing

## Cable Ties

### Releasable Cable Ties

#### RT Series

HellermannTyton Releasable Cable Ties feature an extended pawl for easy access to wire bundles when changes are necessary. The head design guarantees high tensile strength even after repeated use, as well as a low insertion force. For high-volume applications, tensioning tools are available to ensure consistent and safe installation.

#### Features and Benefits

- Special design with extended pawl offers a release feature for quick and easy access to wire bundles.
- Head design provides high tensile strength with very low insertion force even after repeated use.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
RT40R0M4*	RT40R	40.0 (180.0)	8.5 (215.0)	2.0 (51.0)	0.2 (4.0)	PA66	Black	1000
RT40R0C2*		40.0 (180.0)	8.5 (215.0)	2.0 (51.0)	0.2 (4.0)	PA66	Black	100
RT40R9C2*		40.0 (180.0)	8.5 (215.0)	2.0 (51.0)	0.2 (4.0)	PA66	Natural	100
RT40R9M4*		40.0 (180.0)	8.5 (215.0)	2.0 (51.0)	0.2 (4.0)	PA66	Natural	1000
RT50S0C2*	RT50S	50.0 (225.0)	6.3 (160.0)	1.4 (35.0)	0.2 (4.6)	PA66	Black	100
RT50S9C2*		50.0 (225.0)	6.3 (160.0)	1.4 (35.0)	0.2 (4.6)	PA66	Natural	100
RT50S9M4*		50.0 (225.0)	6.3 (160.0)	1.4 (35.0)	0.2 (4.6)	PA66	Natural	1000
RT50LL0M4*	RT50LL	50.0 (225.0)	15.0 (380.0)	4.0 (101.0)	0.2 (4.6)	PA66	Black	1000
RT50LL9M4*		50.0 (225.0)	15.0 (380.0)	4.0 (101.0)	0.2 (4.6)	PA66	Natural	1000
RT50LL9C2*		50.0 (225.0)	15.0 (380.0)	4.0 (101.0)	0.2 (4.6)	PA66	Natural	100
RT50LL0UVC2		50.0 (225.0)	15.0 (380.0)	4.0 (101.0)	0.2 (4.6)	PA66UV	Black	100

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.



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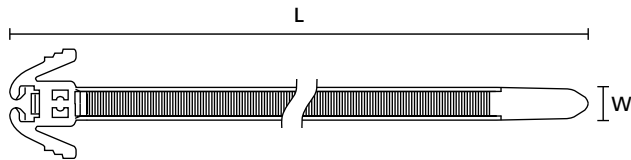
### Releasable Cable Ties

#### REZ Series Pinch Releasable Ties

Patented pinch release mechanism for easy handling allows tie to be released using one hand. The head design guarantees high tensile strength even after repeated use. For high-volume applications, tensioning tools are available to ensure consistent and safe installation.

#### Features and Benefits

- The unique, patented head design enables the tie to be inserted through a standard style head for permanent locking or can be twisted into the pinch-releasable style head for easy opening at a later time.
- The quick pinch-release mechanism can be released by one hand even when the tie is under tension.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
REZ200.NB3P	REZ200	30.0 (135.0)	7.9 (200.0)	2.0 (50.0)	0.2 (4.7)	PA66	Black	100
REZ300.NB3P	REZ300	30.0 (135.0)	12.0 (305.0)	3.2 (80.0)	0.2 (4.7)	PA66	Black	100

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

# Bundling and Securing

## Cable Ties

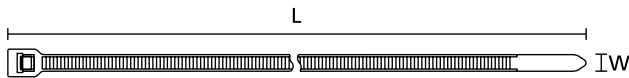
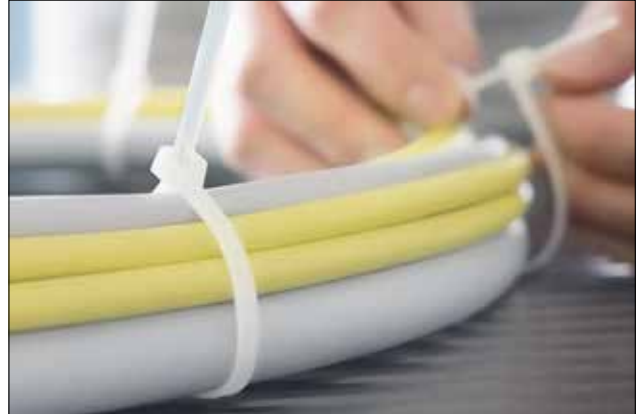
### Releasable Cable Ties

#### RT150 Heavy Duty Releasable Cable Ties

HellermannTyton heavy-duty releasable cable ties feature an extended pawl that allows for simple and quick tie release. The head design guarantees high tensile strength even after repeated use, as well as a low insertion force. For high-volume applications, tensioning tools are available to ensure consistent and safe installation.

#### Features and Benefits

- Special design with extended pawl offers a release feature for quick and easy access to wire bundles.
- Head design provides high tensile strength with very low insertion force even after repeated use.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
RT150REPOX2	RT150REP	175.0 (780.0)	15.4 (390.0)	4.1 (105.0)	0.4 (8.8)	PA66	Black	25
RT150MEPOX2	RT150MEP	175.0 (780.0)	21.0 (535.0)	5.9 (150.0)	0.4 (8.8)	PA66	Black	25
RT150LEPOX2	RT150LEP	175.0 (780.0)	32.3 (820.0)	9.6 (245.0)	0.4 (8.8)	PA66	Black	25

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO9, EVO9HT, MK9P.

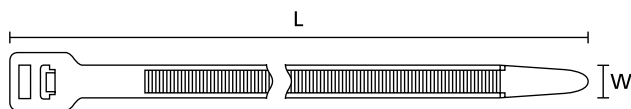
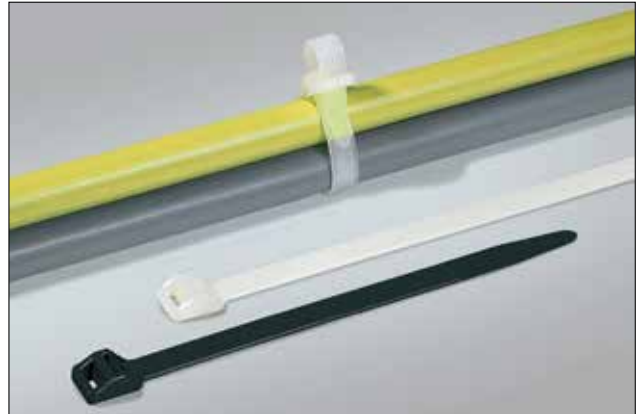
### Heavy Duty Releasable Cable Ties

#### RT250 Heavy Duty Releasable Cable Ties

HellermannTyton heavy-duty releasable cable ties offer a release feature in the head allowing for easy access to wire bundles when changes are necessary. The head design guarantees high tensile strength even after repeated use, as well as a low insertion force. For high volume applications, tensioning tools are available to ensure consistent and safe installation.

#### Features and Benefits

- Special extended-pawl design offers a release feature for quick and easy access to wire bundles.
- Head design provides high tensile strength with very low insertion force even after repeated use.
- Buckle feature on head allows excess strap to be tucked away after installation.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
RT250S0X2*	RT250S	250.0 (1,115.0)	9.1 (230.0)	2.0 (50.0)	0.5 (12.5)	PA66	Black	25
RT250S9X2*		250.0 (1,115.0)	9.1 (230.0)	2.0 (50.0)	0.5 (12.5)	PA66	Natural	25
RT250S0UVX2		250.0 (1,115.0)	9.1 (230.0)	2.0 (50.0)	0.5 (12.5)	PA66UV	Black	25
RT250R0X2*	RT250R	250.0 (1,115.0)	20.3 (515.0)	4.9 (125.0)	0.5 (12.5)	PA66	Black	25
RT250R9X2*		250.0 (1,115.0)	20.3 (515.0)	4.9 (125.0)	0.5 (12.5)	PA66	Natural	25
RT250R0UVX2		250.0 (1,115.0)	20.3 (515.0)	4.9 (125.0)	0.5 (12.5)	PA66UV	Black	25
RT250M0X2*	RT250M	250.0 (1,115.0)	22.3 (565.3)	5.9 (150.0)	0.5 (12.5)	PA66	Black	25
RT250M9X2*		250.0 (1,115.0)	22.3 (565.3)	5.9 (150.0)	0.5 (12.5)	PA66	Natural	25
RT250M0UVX2*		250.0 (1,115.0)	22.3 (565.3)	5.9 (150.0)	0.5 (12.5)	PA66UV	Black	25
RT250I0X2*	RT250I	250.0 (1,115.0)	28.7 (730.0)	8.0 (203.0)	0.5 (12.5)	PA66	Black	25
RT250I9X2*		250.0 (1,115.0)	28.7 (730.0)	8.0 (203.0)	0.5 (12.5)	PA66	Natural	25
RT250I0UVX2		250.0 (1,115.0)	28.7 (730.0)	8.0 (203.0)	0.5 (12.5)	PA66UV	Black	25
RT250L0X2*	RT250L	250.0 (1,115.0)	34.6 (880.0)	10.0 (254.0)	0.5 (12.5)	PA66	Black	25
RT250L9X2*		250.0 (1,115.0)	34.6 (880.0)	10.0 (254.0)	0.5 (12.5)	PA66	Natural	25
RT250L0UVX2		250.0 (1,115.0)	34.6 (880.0)	10.0 (254.0)	0.5 (12.5)	PA66UV	Black	25
RT250XL0X2*	RT250XL	250.0 (1,115.0)	40.6 (1,030.0)	12.0 (305.0)	0.5 (12.5)	PA66	Black	25
RT250XL9X2*		250.0 (1,115.0)	40.6 (1,030.0)	12.0 (305.0)	0.5 (12.5)	PA66	Natural	25
RT250XL0UVX2		250.0 (1,115.0)	40.6 (1,030.0)	12.0 (305.0)	0.5 (12.5)	PA66UV	Black	25

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Installation tools: EVO9, EVO9HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.



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# Bundling and Securing

## Cable Ties

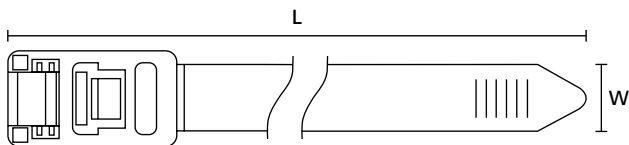
### Releasable Cable Ties

#### Speedy Tie

An entirely innovative design in cable management, the Speedy Tie is a fully reusable, easily releasable tie. The Speedy Tie's unique design allows it to be released with one hand. HellermannTyton releasable cable ties offer a release feature in the head allowing for easy access to wire bundles when changes or temporary bundling are necessary. The head design guarantees high tensile strength even after repeated use.

#### Features and Benefits

- The heavy-duty Speedy tie features a specially designed head and patented trigger to allow for repeated use in temporary bundling applications.
- Additional design feature on the head allows excess strap to be tucked away after installation.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
RTT750HR.NX900	SpeedyTie (RTT750HR)	200.0 (888.0)	29.6 (752.0)	8.3 (210.0)	0.5 (13.0)	PA66	Yellow, Red	5
RTT750HR.NX1P		200.0 (888.0)	29.6 (752.0)	8.3 (210.0)	0.5 (13.0)	PA66	Yellow, Red	25
115-00030		200.0 (888.0)	29.6 (752.0)	8.3 (210.0)	0.5 (13.0)	PA66HIR(S)	Black	5

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



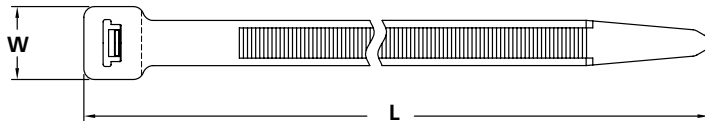
### Releasable Cable Ties

#### RT255 Heavy Duty Releasable Ties

HellermannTyton releasable cable ties offer a release feature in the head allowing for easy access to wire bundles when changes are necessary. The head design guarantees high tensile strength even after repeated use, as well as a low insertion force. For high volume applications, tensioning tools are available to ensure consistent and safe installation.

#### Features and Benefits

- High impact, heat and UV stabilized releasable cable ties contain an impact modifier allowing greater flexibility and greater resistance to vibration.
- Special design offers a release feature for quick and easy access to wire bundles.
- Head design provides high tensile strength with very low insertion force even after repeated use.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
RT255S0HIRX2*	RT255S	250.0 (1,115.0)	8.9 (225.0)	2.0 (50.0)	0.5 (12.6)	PA66HIRHSUV	Black	25
RT255R0HIRX2*	RT255R	250.0 (1,115.0)	20.0 (508.0)	5.0 (127.0)	0.5 (12.6)	PA66HIRHSUV	Black	25

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Installation tools: EVO9, EVO9HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.



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# Bundling and Securing

## Cable Ties

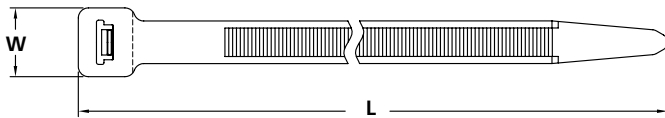
### Releasable Cable Ties

#### SR255 Heavy Duty Sub-Releasable Ties

HellermannTyton SR255 Series heavy-duty cable ties offer a release feature in the head allowing for easy installation with the use of a cable tie tool. The head design guarantees high tensile strength even after repeated use, as well as a low insertion force.

#### Features and Benefits

- Impact-resistant, heat and UV stabilized releasable cable ties contain an impact modifier allowing greater flexibility and greater resistance to vibration.
- Special design offers a release feature for quick and easy access to wire bundles.
- Head design provides high tensile strength with very low insertion force even after repeated use.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
SR255S0HIHSUVX2	SR255S	250.0 (1,115.0)	8.9 (225.0)	2.0 (50.0)	0.5 (12.6)	PA66HIRHSUV	Black	25
SR255X0HIHSUVX2	SR255X	250.0 (1,115.0)	14.6 (370.0)	3.9 (100.0)	0.5 (12.6)	PA66HIRHSUV	Black	25
SR255X0HIHSUVC2		250.0 (1,115.0)	14.6 (370.0)	3.9 (100.0)	0.5 (12.6)	PA66HIRHSUV	Black	100

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO9, EVO9HT, MK9P.

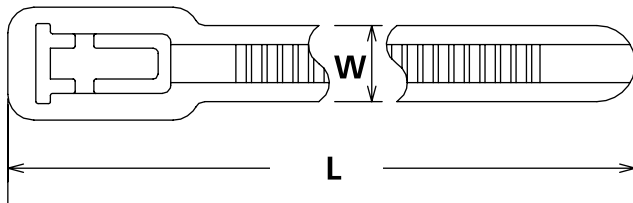
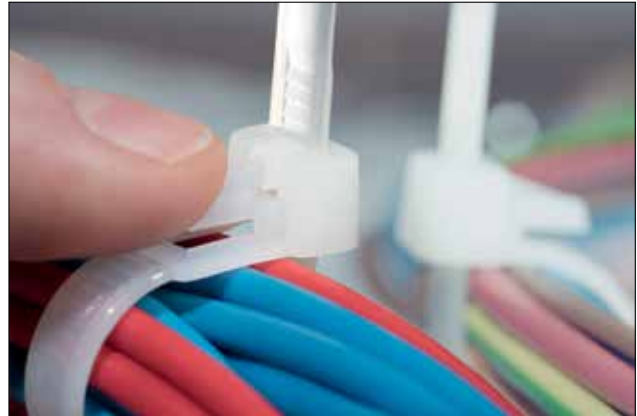
### Releasable Cable Ties

#### RF Series

Releasable Cable Ties feature an integrated release mechanism on the head, allowing for changeouts without destroying the cable tie. The head design ensures consistently high tensile strength, even after repeated use. Rounded tail glides into head with low insertion force.

#### Features and Benefits

- Release feature allows maintenance or changeouts as needed.
- Polypropylene cable ties deliver excellent resistance to chemicals and salts.
- Inside serrations provide strong grip on cables and wire bundles.
- Reliable bundle fastening plus low insertion force for ease of use.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
115-00046	RF140	50.0 (222.3)	5.5 (140.0)	1.3 (32.0)	0.3 (7.4)	PA66	Black	100
115-00047		50.0 (222.3)	5.5 (140.0)	1.3 (32.0)	0.3 (7.4)	PA66	Natural	100
115-00049*	RF250	50.0 (222.3)	9.8 (250.0)	2.8 (72.0)	0.3 (7.4)	PA66	Black	100
115-00054		50.0 (222.3)	9.8 (250.0)	2.8 (72.0)	0.3 (7.4)	PA66	Natural	100

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.



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# Bundling and Securing

## Cable Ties

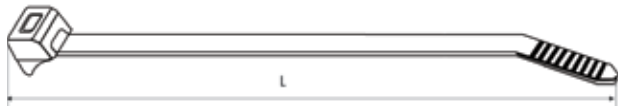
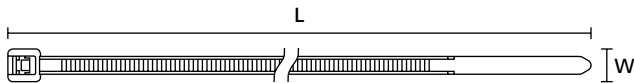
### Clamp Ties

#### CTT Series in Natural and Black

HellermannTyton clamp tie has triangular shaped tabs extending beneath the head for optimal surface contact and complete circumferential compression to 360 degrees. The bent tail design allows quick and simple installations by hand. The clamps are recommended for soft rubber hose applications including fuel, water, and air vacuum lines.

#### Features and Benefits

- Head design contains clamping rails to provide full circumferential compression around bundles.
- Bent tail allows for quick insertion into head.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
CTT20R0C2*	CTT20R	20.0 (90.0)	4.0 (101.6)	0.5 (13.0)	0.1 (2.5)	PA66	Black	100
CTT20R9C2*		20.0 (90.0)	4.0 (101.6)	0.5 (13.0)	0.1 (2.5)	PA66	Natural	100
CTT20R0HSC2*		20.0 (90.0)	4.0 (101.6)	0.5 (13.0)	0.1 (2.5)	PA66HS	Black	100
CTT20R9M4*		20.0 (90.0)	4.0 (101.6)	0.5 (13.0)	0.1 (2.5)	PA66	Natural	1000
CTT20R0HSM4*		20.0 (90.0)	4.0 (101.6)	0.5 (13.0)	0.1 (2.5)	PA66HS	Black	1000
CTT60R0C2*	CTT60R	60.0 (265.0)	8.0 (205.0)	1.8 (45.0)	0.2 (4.7)	PA66	Black	100
CTT60R9C2*		60.0 (265.0)	8.0 (205.0)	1.8 (45.0)	0.2 (4.7)	PA66	Natural	100
CTT60R0HSC2*		60.0 (265.0)	8.0 (205.0)	1.8 (45.0)	0.2 (4.7)	PA66HS	Black	100
CTT60R0HIRC2		60.0 (265.0)	8.0 (205.0)	1.8 (45.0)	0.2 (4.7)	PA66HIRHSUV	Black	100
CTT60R9M4*		60.0 (265.0)	8.0 (205.0)	1.8 (45.0)	0.2 (4.7)	PA66	Natural	1000
CTT60R0HSM4*		60.0 (265.0)	8.0 (205.0)	1.8 (45.0)	0.2 (4.7)	PA66HS	Black	1000
CTT60R0HIRHSM4		60.0 (265.0)	8.0 (205.0)	1.8 (45.0)	0.2 (4.7)	PA66HIRHSUV	Black	1000

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.



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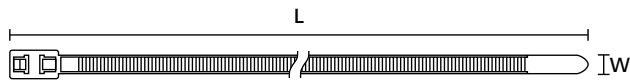
### Double Head Ties

#### DH Series Cable Ties

The double head cable tie was designed with a dual locking head that creates two loops to secure two bundles simultaneously. The head also provides separation between bundles or bundles running parallel to each other. The bent tail design allows quick and simple installations by hand. For high volume applications, tensioning tools are available to ensure consistent and safe installation.

#### Features and Benefits

- Create separate bundles with only one cable tie.
- Cable tie with two heads can be used for parallel routing applications.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Width (W) in. (mm)	Bundle Diameter Max. 1st Hole in. (mm)	Bundle Diameter Max. 2nd Hole in. (mm)	Material	Color	Pkg. Qty.
117-00018*	T50SDH	50.0 (225.0)	6.3 (159.0)	0.2 (4.7)	1.2 (31.0)	1.3 (32.0)	PA66	Black	100
117-00017*		50.0 (225.0)	6.3 (159.0)	0.2 (4.7)	1.2 (31.0)	1.3 (32.0)	PA66	Natural	1000
117-00019*		50.0 (225.0)	6.3 (159.0)	0.2 (4.7)	1.2 (31.0)	1.3 (32.0)	PA66	Black	1000
T50RDH9C2*	T50RDH	50.0 (225.0)	8.3 (210.0)	0.2 (4.7)	1.7 (44.4)	0.8 (19.0)	PA66	Natural	100
T50RDH0C2*		50.0 (225.0)	8.3 (210.0)	0.2 (4.7)	1.7 (44.4)	0.8 (19.0)	PA66	Black	100
T50RDH0UVC2		50.0 (225.0)	8.3 (210.0)	0.2 (4.7)	1.7 (44.4)	0.8 (19.0)	PA66UV	Black	100
T50RDH9M4*		50.0 (225.0)	8.3 (210.0)	0.2 (4.7)	1.7 (44.4)	0.8 (19.0)	PA66	Natural	1000
T50RDH0M4*		50.0 (225.0)	8.3 (210.0)	0.2 (4.7)	1.7 (44.4)	0.8 (19.0)	PA66	Black	1000
T50RDH0HSM4*		50.0 (225.0)	8.3 (210.0)	0.2 (4.7)	1.7 (44.4)	0.8 (19.0)	PA66HS	Black	1000

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

Maximum bundle diameter is variable due to double loops. Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.



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# Bundling and Securing

## Cable Ties

### Double Head Ties

#### DH Series Cable Ties

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Width (W) in. (mm)	Bundle Diameter Max. 1st Hole in. (mm)	Bundle Diameter Max. 2nd Hole in. (mm)	Material	Color	Pkg. Qty.
T50IDH9C2*	T50IDH	50.0 (225.0)	12.0 (305.0)	0.2 (4.7)	3.0 (76.2)	1.5 (38.1)	PA66	Natural	100
T50IDH0C2*		50.0 (225.0)	12.0 (305.0)	0.2 (4.7)	3.0 (76.2)	1.5 (38.1)	PA66	Black	100
T50IDH0UVC2*		50.0 (225.0)	12.0 (305.0)	0.2 (4.7)	3.0 (76.2)	1.5 (38.1)	PA66UV	Black	100
T50IDH9M4*		50.0 (225.0)	12.0 (305.0)	0.2 (4.7)	3.0 (76.2)	1.5 (38.1)	PA66	Natural	1000
T50IDH0M4*		50.0 (225.0)	12.0 (305.0)	0.2 (4.7)	3.0 (76.2)	1.5 (38.1)	PA66	Black	1000
T50IDH0HSM4*		50.0 (225.0)	12.0 (305.0)	0.2 (4.7)	3.0 (76.2)	1.5 (38.1)	PA66HS	Black	1000
T50LDH9C2*	T50LDH	50.0 (225.0)	15.6 (395.0)	0.2 (4.7)	4.0 (101.6)	2.0 (50.8)	PA66	Natural	100
T50LDH0C2*		50.0 (225.0)	15.6 (395.0)	0.2 (4.7)	4.0 (101.6)	2.0 (50.8)	PA66	Black	100
T50LDH0UVC2		50.0 (225.0)	15.6 (395.0)	0.2 (4.7)	4.0 (101.6)	2.0 (50.8)	PA66UV	Black	100
T50LDH9M4*		50.0 (225.0)	15.6 (395.0)	0.2 (4.7)	4.0 (101.6)	2.0 (50.8)	PA66	Natural	1000
T50LDH0M4*		50.0 (225.0)	15.6 (395.0)	0.2 (4.7)	4.0 (101.6)	2.0 (50.8)	PA66	Black	1000
T50LDH0HSM4*		50.0 (225.0)	15.6 (395.0)	0.2 (4.7)	4.0 (101.6)	2.0 (50.8)	PA66HS	Black	1000
T120RDH0K2*	T120RDH	120.0 (535.0)	15.7 (398.0)	0.3 (7.6)	4.0 (101.6)	2.0 (50.8)	PA66	Black	50
T120RDH0H4*		120.0 (535.0)	15.7 (398.0)	0.3 (7.6)	4.0 (101.6)	2.0 (50.8)	PA66	Black	500

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

Maximum bundle diameter is variable due to double loops. Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.



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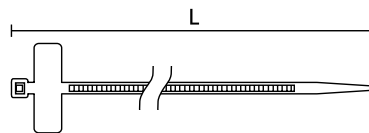
### Identification Ties

#### IT Series Ties

Identification Cable Ties feature an identification plate that allows wire and cable bundles to be easily marked and identified. These ties enable wire and cables to be secured and identified using just one product, saving installation time. The plates can be marked using a permanent marker or with a HellermannTyton adhesive label.

#### Features and Benefits

- Identification plate feature allows bundles to be easily marked and identified.
- Wire and cable harnesses can be secured and identified using just one product, which saves time.
- Plates can be marked manually with a permanent marker or with a pre-printed adhesive label.



PART NO.	TYPE	Description	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Material	Color	Pkg. Qty.
IT18R0C2*	IT18R	Marking pad size: .98" x .32" (25 x 8mm)	18.0 (80.0)	3.9 (100.0)	0.8 (19.0)	PA66	Black	100
IT18R0L4*		Marking pad size: .98" x .32" (25 x 8mm)	18.0 (80.0)	3.9 (100.0)	0.8 (19.0)	PA66	Black	200
IT18R9C2*		Marking pad size: .98" x .32" (25 x 8mm)	18.0 (80.0)	3.9 (100.0)	0.8 (19.0)	PA66	Natural	100
IT18R9L4*		Marking pad size: .98" x .32" (25 x 8mm)	18.0 (80.0)	3.9 (100.0)	0.8 (19.0)	PA66	Natural	200
IT18R2C2*		Marking pad size: .98" x .32" (25 x 8mm)	18.0 (80.0)	3.9 (100.0)	0.8 (19.0)	PA66	Red	100
IT18R2L4*		Marking pad size: .98" x .32" (25 x 8mm)	18.0 (80.0)	3.9 (100.0)	0.8 (19.0)	PA66	Red	200
IT18R3C2*		Marking pad size: .98" x .32" (25 x 8mm)	18.0 (80.0)	3.9 (100.0)	0.8 (19.0)	PA66	Orange	100
IT18R3L4*		Marking pad size: .98" x .32" (25 x 8mm)	18.0 (80.0)	3.9 (100.0)	0.8 (19.0)	PA66	Orange	200
IT18R4L4*		Marking pad size: .98" x .32" (25 x 8mm)	18.0 (80.0)	3.9 (100.0)	0.8 (19.0)	PA66	Yellow	200
IT18R6C2*		Marking pad size: .98" x .32" (25 x 8mm)	18.0 (80.0)	3.9 (100.0)	0.8 (19.0)	PA66	Blue	100
IT18R6L4*		Marking pad size: .98" x .32" (25 x 8mm)	18.0 (80.0)	3.9 (100.0)	0.8 (19.0)	PA66	Blue	200
IT18R8C2*		Marking pad size: .98" x .32" (25 x 8mm)	18.0 (80.0)	3.9 (100.0)	0.8 (19.0)	PA66	Gray	100
IT18R10C2*		Marking pad size: .98" x .32" (25 x 8mm)	18.0 (80.0)	3.9 (100.0)	0.8 (19.0)	PA66	White	100
IT18R10L4*		Marking pad size: .98" x .32" (25 x 8mm)	18.0 (80.0)	3.9 (100.0)	0.8 (19.0)	PA66	White	200

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. Military black available, contact HellermannTyton for more information. \*This product meets UL standards. Please see appendix for specific file numbers.



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# Bundling and Securing

## Cable Ties

### Identification Ties

#### IT Series Ties

PART NO.	TYPE	Description	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Material	Color	Pkg. Qty.
IT18FL0C2*	IT18FL	Marking pad size: .81" x .35" (20.5 x 9mm)	18.0 (80.0)	4.3 (110.0)	0.8 (19.0)	PA66	Black	100
IT18FL0L4*		Marking pad size: .81" x .35" (20.5 x 9mm)	18.0 (80.0)	4.3 (110.0)	0.8 (19.0)	PA66	Black	200
IT18FL9C2*		Marking pad size: .81" x .35" (20.5 x 9mm)	18.0 (80.0)	4.3 (110.0)	0.8 (19.0)	PA66	Natural	100
IT18FL9L4*		Marking pad size: .81" x .35" (20.5 x 9mm)	18.0 (80.0)	4.3 (110.0)	0.8 (19.0)	PA66	Natural	200
IT18FL2L4*		Marking pad size: .81" x .35" (20.5 x 9mm)	18.0 (80.0)	4.3 (110.0)	0.8 (19.0)	PA66	Red	200
IT18FL3L4*		Marking pad size: .81" x .35" (20.5 x 9mm)	18.0 (80.0)	4.3 (110.0)	0.8 (19.0)	PA66	Orange	200
IT18FL4L4*		Marking pad size: .81" x .35" (20.5 x 9mm)	18.0 (80.0)	4.3 (110.0)	0.8 (19.0)	PA66	Yellow	200
IT18FL6L4*		Marking pad size: .81" x .35" (20.5 x 9mm)	18.0 (80.0)	4.3 (110.0)	0.8 (19.0)	PA66	Blue	200
IT18FL10L4*		Marking pad size: .81" x .35" (20.5 x 9mm)	18.0 (80.0)	4.3 (110.0)	0.8 (19.0)	PA66	White	200
IT50R0C2*		IT50R	Marking pad size: 1.10" x .51" (28 x 12.9mm)	50.0 (225.0)	8.0 (203.0)	1.8 (44.5)	PA66	Black
IT50R0M4*	Marking pad size: 1.10" x .51" (28 x 12.9mm)		50.0 (225.0)	8.0 (203.0)	1.8 (44.5)	PA66	Black	1000
IT50R9C2*	Marking pad size: 1.10" x .51" (28 x 12.9mm)		50.0 (225.0)	8.0 (203.0)	1.8 (44.5)	PA66	Natural	100
IT50R9M4*	Marking pad size: 1.10" x .51" (28 x 12.9mm)		50.0 (225.0)	8.0 (203.0)	1.8 (44.5)	PA66	Natural	1000
IT50R2C2*	Marking pad size: 1.10" x .51" (28 x 12.9mm)		50.0 (225.0)	8.0 (203.0)	1.8 (44.5)	PA66	Red	100
IT50R3M4*	Marking pad size: 1.10" x .51" (28 x 12.9mm)		50.0 (225.0)	8.0 (203.0)	1.8 (44.5)	PA66	Orange	1000
IT50R4C2*	Marking pad size: 1.10" x .51" (28 x 12.9mm)		50.0 (225.0)	8.0 (203.0)	1.8 (44.5)	PA66	Yellow	100
IT50R10C2*	Marking pad size: 1.10" x .51" (28 x 12.9mm)		50.0 (225.0)	8.0 (203.0)	1.8 (44.5)	PA66	White	100
IT50RD0K2*	IT50RD	Marking pad size: 1.14" x 1.04" (29 x 26.3mm)	50.0 (225.0)	8.0 (205.0)	1.7 (44.0)	PA66	Black	50
IT50RD9K2*		Marking pad size: 1.14" x 1.04" (29 x 26.3mm)	50.0 (225.0)	8.0 (205.0)	1.7 (44.0)	PA66	Natural	50
IT50RD4K2*		Marking pad size: 1.14" x 1.04" (29 x 26.3mm)	50.0 (225.0)	8.0 (205.0)	1.7 (44.0)	PA66	Yellow	50

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. Military black available, contact HellermannTyton for more information. \*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.



### Identification Ties

#### IT Series Ties

PART NO.	TYPE	Description	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Material	Color	Pkg. Qty.
IT50RT0K2*	IT50RT	Marking pad size: 1.81" x 1.04" (46 x 26.3mm)	50.0 (225.0)	8.0 (205.0)	1.7 (44.0)	PA66	Black	50
IT50RT9K2*		Marking pad size: 1.81" x 1.04" (46 x 26.3mm)	50.0 (225.0)	8.0 (205.0)	1.7 (44.0)	PA66	Natural	50
IT50RT4K2*		Marking pad size: 1.81" x 1.04" (46 x 26.3mm)	50.0 (225.0)	8.0 (205.0)	1.7 (44.0)	PA66	Yellow	50
IT50L0M4*	IT50L	Marking pad size: .5" x 2.20" (12.8 x 56mm)	50.0 (225.0)	15.4 (390.0)	3.9 (100.0)	PA66	Black	1000
IT50L9C2*		Marking pad size: .5" x 2.20" (12.8 x 56mm)	50.0 (225.0)	15.4 (390.0)	3.9 (100.0)	PA66	Natural	100
IT50L3M4*		Marking pad size: .5" x 2.20" (12.8 x 56mm)	50.0 (225.0)	15.4 (390.0)	3.9 (100.0)	PA66	Orange	1000
IT50L4M4*		Marking pad size: .5" x 2.20" (12.8 x 56mm)	50.0 (225.0)	15.4 (390.0)	3.9 (100.0)	PA66	Yellow	1000
IT50L6M4*		Marking pad size: .5" x 2.20" (12.8 x 56mm)	50.0 (225.0)	15.4 (390.0)	3.9 (100.0)	PA66	Blue	1000

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. Military black available, contact HellermannTyton for more information. \*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

# Bundling and Securing

## Cable Ties

### Stainless Steel Cable Ties

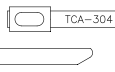
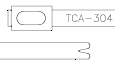
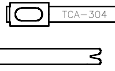
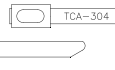
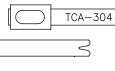
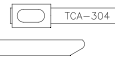
#### MBT Series in 304 Material

HellermannTyton's stainless steel ties are designed with a ball bearing locking mechanism to assure high tensile strength and easy insertion when securing hoses, cables, pipes, and more. Stainless steel ties can be used in virtually any indoor, outdoor, or underground application. 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.

#### Features and Benefits

- Self locking, ball bearing mechanism assures high tensile strength and easy insertion.
- Fully enclosed head does not allow dirt or grit to interfere with locking mechanism.
- High tensile strength for dependability and safety on heavy duty applications.



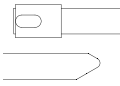
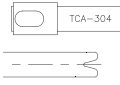
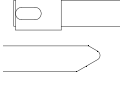
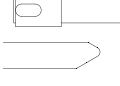
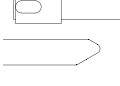
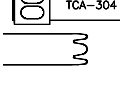
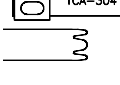
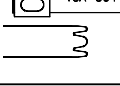

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Pkg. Qty.	Drawing
MBT55-S	MBT55S	202.0 (900.0)	5.0 (127.0)	1.0 (25.0)	0.2 (4.6)	100	
MBT85-S	MBT85S	202.0 (900.0)	7.9 (201.0)	2.0 (50.0)	0.2 (4.6)	100	
MBT145-S	MBT145S	202.0 (900.0)	14.3 (362.0)	4.0 (102.0)	0.2 (4.6)	100	
MBT205-S	MBT205S	202.0 (900.0)	20.5 (521.0)	6.0 (152.0)	0.2 (4.6)	100	
MBT275-S	MBT275S	202.0 (900.0)	27.0 (685.0)	8.0 (203.0)	0.2 (4.6)	100	
MBT335-S	MBT335S	202.0 (900.0)	33.0 (838.0)	10.0 (254.0)	0.2 (4.6)	100	

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

Installation tool: MK95ST. Stainless steel ties and materials should be tested thoroughly under end-use conditions to determine suitability for the application.

### Stainless Steel Cable Ties

#### MBT Series in 304 Material

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Pkg. Qty.	Drawing
MBT8H-S	MBT8HS	450.0 (2,000.0)	7.9 (201.0)	2.0 (50.0)	0.3 (7.9)	50	
MBT14H-S	MBT14HS	450.0 (2,000.0)	14.3 (362.0)	4.0 (102.0)	0.3 (7.9)	50	
MBT20H-S	MBT20HS	450.0 (2,000.0)	20.5 (521.0)	6.0 (152.0)	0.3 (7.9)	50	
MBT27H-S	MBT27HS	450.0 (2,000.0)	27.0 (685.0)	8.0 (203.0)	0.3 (7.9)	50	
MBT33H-S	MBT33HS	450.0 (2,000.0)	33.0 (838.0)	10.0 (254.0)	0.3 (7.9)	50	
111-95148	MBT14XHS	607.0 (2,700.0)	14.3 (362.0)	4.0 (102.0)	0.5 (12.3)	50	
111-95208	MBT20XHS	607.0 (2,700.0)	20.5 (521.0)	6.0 (152.0)	0.5 (12.3)	50	
111-95278	MBT27XHS	607.0 (2,700.0)	26.8 (681.0)	8.0 (203.0)	0.5 (12.3)	50	
111-95338	MBT33XHS	607.0 (2,700.0)	33.0 (838.0)	10.0 (254.0)	0.5 (12.3)	50	

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

Installation tool: MK95ST. Stainless steel ties and materials should be tested thoroughly under end-use conditions to determine suitability for the application.

# Bundling and Securing

## Cable Ties

### Stainless Steel Cable Ties

#### MBT Series in 316 Material

HellermannTyton's stainless steel ties are designed with a ball bearing locking mechanism to assure high tensile strength and easy insertion when securing hoses, cables, pipes, and more. Stainless steel ties can be used in virtually any indoor, outdoor, or underground application. 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. MBT stainless steel ties in 316 stainless steel material are also available with a polyester protective coating. This coating creates a barrier and protectant from chemical reactions of dissimilar metals.



#### Features and Benefits

- Self locking, ball bearing mechanism for quick and easy installation, either by hand or by tensioning tool.
- Fully enclosed head prevents dirt or grit from interfering with locking mechanism.
- High tensile strength for maximum strength and safety on heavy duty applications.

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Pkg. Qty.	Drawing
MBT5S	MBT5S	202.0 (900.0)	5.0 (127.0)	1.0 (25.0)	0.2 (4.6)	100	
MBT8S	MBT8S	202.0 (900.0)	7.9 (201.0)	2.0 (50.0)	0.2 (4.6)	100	
MBT14S	MBT14S	202.0 (900.0)	14.3 (362.0)	4.0 (102.0)	0.2 (4.6)	100	
MBT20S	MBT20S	202.0 (900.0)	20.5 (521.0)	6.0 (152.0)	0.2 (4.6)	100	
MBT27S	MBT27S	202.0 (900.0)	27.0 (685.0)	8.0 (203.0)	0.2 (4.6)	100	

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

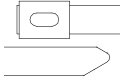
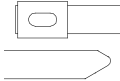
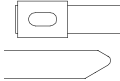
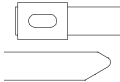
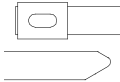
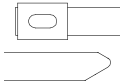
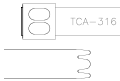
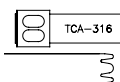
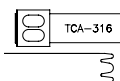
Installation tool: MK95ST. Stainless steel ties and materials should be tested thoroughly under end-use conditions to determine suitability for the application.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

### Stainless Steel Cable Ties

#### MBT Series in 316 Material

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Pkg. Qty.	Drawing
MBT33S	MBT33S	202.0 (900.0)	33.0 (838.0)	10.0 (254.0)	0.2 (4.6)	100	
MBT8H	MBT8H	450.0 (2,000.0)	7.9 (201.0)	2.0 (50.0)	0.3 (7.9)	50	
MBT14H	MBT14H	450.0 (2,000.0)	14.3 (362.0)	4.0 (102.0)	0.3 (7.9)	50	
MBT20H	MBT20H	450.0 (2,000.0)	20.5 (521.0)	6.0 (152.0)	0.3 (7.9)	50	
MBT27H	MBT27H	450.0 (2,000.0)	27.0 (685.0)	8.0 (203.0)	0.3 (7.9)	50	
MBT33H	MBT33H	450.0 (2,000.0)	33.0 (838.0)	10.0 (254.0)	0.3 (7.9)	50	
111-95149	MBT14XH	607.0 (2,700.0)	14.3 (362.0)	4.0 (102.0)	0.5 (12.3)	50	
111-95209	MBT20XH	607.0 (2,700.0)	20.5 (521.0)	6.0 (152.0)	0.5 (12.3)	50	
111-95279	MBT27XH	607.0 (2,700.0)	26.8 (681.0)	8.0 (203.0)	0.5 (12.3)	50	

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

Installation tool: MK95ST. Stainless steel ties and materials should be tested thoroughly under end-use conditions to determine suitability for the application.



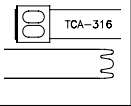
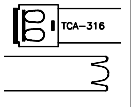
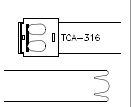
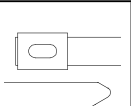
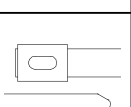
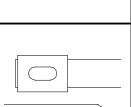
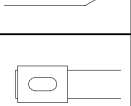
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# Bundling and Securing

## Cable Ties

### Stainless Steel Cable Ties

#### MBT Series in 316 Material

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Pkg. Qty.	Drawing
111-95339	MBT33XH	607.0 (2,700.0)	33.0 (838.0)	10.0 (254.0)	0.5 (12.3)	50	
111-01301	MBT14UH	922.0 (4,100.0)	14.3 (362.0)	4.0 (102.0)	0.6 (16.0)	50	
111-01302	MBT20UH	922.0 (4,100.0)	20.5 (521.0)	6.0 (152.0)	0.6 (16.0)	50	
111-01303	MBT27UH	922.0 (4,100.0)	26.8 (681.0)	8.0 (203.0)	0.6 (16.0)	50	
111-01304	MBT33UH	922.0 (4,100.0)	33.0 (838.0)	10.0 (254.0)	0.6 (16.0)	50	
111-01305	MBT43UH	922.0 (4,100.0)	43.0 (1,092.0)	13.0 (330.0)	0.6 (16.0)	25	
111-01306	MBT49UH	922.0 (4,100.0)	49.0 (1,245.0)	15.0 (380.0)	0.6 (16.0)	25	

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

Installation tool: MK9SST. Stainless steel ties and materials should be tested thoroughly under end-use conditions to determine suitability for the application.



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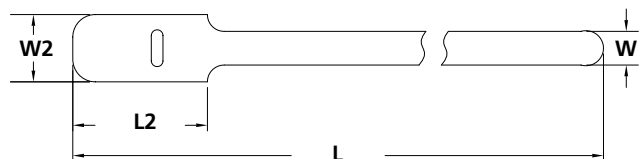
### Hook and Loop Grip Ties

#### Grip Tie Straps in 6" and 8" Lengths

The Grip Tie is a low-profile, one-piece fastening device. Constructed of a hook and loop design, laminated back to back, the Grip Tie features quick release for repetitive access to cable and wire. Reusable, adjustable, releasable, and easy to install, it can be successfully opened and closed numerous times. Grip Ties are available in a variety of colors and are versatile enough for applications ranging from network installations to bundling power cords.

#### Features and Benefits

- Features quick release for repetitive access to cable and wire.
- Can be opened and closed numerous times without failure.
- Adjustable so one size can accommodate multiple bundle diameters.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Width (W2) in. (mm)	Length (L2) in. (mm)	Material	Color	Pkg. Qty.	
GT.375X60C2	GT.375X6	40.0 (177.9)	6.0 (152.4)	1.0 (25.4)	0.4 (9.5)	0.8 (19.1)	1.5 (38.1)	PA66, PE	Black	100	
GT.50X60P2*	GT.50X6	40.0 (177.9)	6.0 (152.4)	1.0 (25.4)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Black	10	
GT.50X60C2*		40.0 (177.9)	6.0 (152.4)	1.0 (25.4)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Black	100	
GT.50X62P2*		40.0 (177.9)	6.0 (152.4)	1.0 (25.4)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Red	10	
GT.50X62C2*		40.0 (177.9)	6.0 (152.4)	1.0 (25.4)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Red	100	
GT.50X63P2*		40.0 (177.9)	6.0 (152.4)	1.0 (25.4)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Orange	10	
GT.50X63C2*		40.0 (177.9)	6.0 (152.4)	1.0 (25.4)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Orange	100	
GT.50X64P2*		40.0 (177.9)	6.0 (152.4)	1.0 (25.4)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Yellow	10	
GT.50X64C2*		40.0 (177.9)	6.0 (152.4)	1.0 (25.4)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Yellow	100	
GT.50X65P2*		40.0 (177.9)	6.0 (152.4)	1.0 (25.4)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Green	10	
GT.50X65C2*		40.0 (177.9)	6.0 (152.4)	1.0 (25.4)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Green	100	
GT.50X66P2*		40.0 (177.9)	6.0 (152.4)	1.0 (25.4)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Blue	10	
GT.50X66C2*		40.0 (177.9)	6.0 (152.4)	1.0 (25.4)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Blue	100	
GT.50X80P2*		GT.50X8	40.0 (177.9)	8.0 (203.2)	1.8 (44.5)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Black	10
GT.50X80C2*			40.0 (177.9)	8.0 (203.2)	1.8 (44.5)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Black	100
GT.50X82P2*	40.0 (177.9)		8.0 (203.2)	1.8 (44.5)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Red	10	
GT.50X82C2*	40.0 (177.9)		8.0 (203.2)	1.8 (44.5)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Red	100	
GT.50X83P2*	40.0 (177.9)		8.0 (203.2)	1.8 (44.5)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Orange	10	
GT.50X83C2*	40.0 (177.9)		8.0 (203.2)	1.8 (44.5)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Orange	100	
GT.50X84P2*	40.0 (177.9)		8.0 (203.2)	1.8 (44.5)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Yellow	10	
GT.50X84C2*	40.0 (177.9)		8.0 (203.2)	1.8 (44.5)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Yellow	100	
GT.50X85P2*	40.0 (177.9)		8.0 (203.2)	1.8 (44.5)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Green	10	
GT.50X85C2*	40.0 (177.9)		8.0 (203.2)	1.8 (44.5)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Green	100	
GT.50X86P2*	40.0 (177.9)		8.0 (203.2)	1.8 (44.5)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Blue	10	
GT.50X86C2*	40.0 (177.9)		8.0 (203.2)	1.8 (44.5)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Blue	100	

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

\*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

# Bundling and Securing

## Cable Ties

### Hook and Loop Grip Ties

#### Grip Tie Straps in 11" and 15" Lengths

The Grip Tie is a low-profile, one-piece fastening device. Constructed of a hook and loop design, laminated back to back, the Grip Tie features quick release for repetitive access to cable and wire. Reusable, adjustable, releasable, and easy to install, it can be successfully opened and closed numerous times. Grip Ties are available in a variety of colors and are versatile enough for applications ranging from network installations to bundling power cords.

#### Features and Benefits

- Features quick release for repetitive access to cable and wire.
- Can be opened and closed numerous times without failure.
- Adjustable so one size can accommodate multiple bundle diameters.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Width (W2) in. (mm)	Length (L2) in. (mm)	Material	Color	Pkg. Qty.
GT.50X110P2*	GT.50X11	40.0 (177.9)	11.0 (279.4)	2.6 (66.8)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Black	10
GT.50X110C2*		40.0 (177.9)	11.0 (279.4)	2.6 (66.8)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Black	100
GT.50X112P2*		40.0 (177.9)	11.0 (279.4)	2.6 (66.8)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Red	10
GT.50X112C2*		40.0 (177.9)	11.0 (279.4)	2.6 (66.8)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Red	100
GT.50X113P2*		40.0 (177.9)	11.0 (279.4)	2.6 (66.8)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Orange	10
GT.50X113C2*		40.0 (177.9)	11.0 (279.4)	2.6 (66.8)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Orange	100
GT.50X114P2*		40.0 (177.9)	11.0 (279.4)	2.6 (66.8)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Yellow	10
GT.50X114C2*		40.0 (177.9)	11.0 (279.4)	2.6 (66.8)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Yellow	100
GT.50X115P2*		40.0 (177.9)	11.0 (279.4)	2.6 (66.8)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Green	10
GT.50X115C2*		40.0 (177.9)	11.0 (279.4)	2.6 (66.8)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Green	100
GT.50X116P2*		40.0 (177.9)	11.0 (279.4)	2.6 (66.8)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Blue	10
GT.50X116C2*		40.0 (177.9)	11.0 (279.4)	2.6 (66.8)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Blue	100

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### Hook and Loop Grip Ties

#### Grip Tie Straps in 11" and 15" Lengths

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Width (W2) in. (mm)	Length (L2) in. (mm)	Material	Color	Pkg. Qty.
GT.75X150P2*	GT.75X15	50.0 (222.4)	15.0 (381.0)	3.9 (98.6)	0.8 (19.1)	1.5 (38.1)	2.5 (63.5)	PA66, PE	Black	10
GT.75X150C2*		50.0 (222.4)	15.0 (381.0)	3.9 (98.6)	0.8 (19.1)	1.5 (38.1)	2.5 (63.5)	PA66, PE	Black	100
GT.75X152P2*		50.0 (222.4)	15.0 (381.0)	3.9 (98.6)	0.8 (19.1)	1.5 (38.1)	2.5 (63.5)	PA66, PE	Red	10
GT.75X152C2*		50.0 (222.4)	15.0 (381.0)	3.9 (98.6)	0.8 (19.1)	1.5 (38.1)	2.5 (63.5)	PA66, PE	Red	100
GT.75X153P2*		50.0 (222.4)	15.0 (381.0)	3.9 (98.6)	0.8 (19.1)	1.5 (38.1)	2.5 (63.5)	PA66, PE	Orange	10
GT.75X153C2*		50.0 (222.4)	15.0 (381.0)	3.9 (98.6)	0.8 (19.1)	1.5 (38.1)	2.5 (63.5)	PA66, PE	Orange	100
GT.75X154P2*		50.0 (222.4)	15.0 (381.0)	3.9 (98.6)	0.8 (19.1)	1.5 (38.1)	2.5 (63.5)	PA66, PE	Yellow	10
GT.75X154C2*		50.0 (222.4)	15.0 (381.0)	3.9 (98.6)	0.8 (19.1)	1.5 (38.1)	2.5 (63.5)	PA66, PE	Yellow	100
GT.75X155P2*		50.0 (222.4)	15.0 (381.0)	3.9 (98.6)	0.8 (19.1)	1.5 (38.1)	2.5 (63.5)	PA66, PE	Green	10
GT.75X155C2*		50.0 (222.4)	15.0 (381.0)	3.9 (98.6)	0.8 (19.1)	1.5 (38.1)	2.5 (63.5)	PA66, PE	Green	100
GT.75X156P2*		50.0 (222.4)	15.0 (381.0)	3.9 (98.6)	0.8 (19.1)	1.5 (38.1)	2.5 (63.5)	PA66, PE	Blue	10
GT.75X156C2*		50.0 (222.4)	15.0 (381.0)	3.9 (98.6)	0.8 (19.1)	1.5 (38.1)	2.5 (63.5)	PA66, PE	Blue	100

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

\*This product meets UL standards. Please see appendix for specific file numbers.



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# Bundling and Securing

## Cable Ties

### Hook and Loop Grip Ties

#### Grip Tie Rolls

For custom-cut lengths, HellermannTyton offers the hook and loop strap on five-yard and 25-yard rolls. Ideal for jobsites where custom lengths are needed. The Grip Tie is a low-profile, one-piece fastening device. Constructed of a hook and loop design, laminated back to back, the Grip Tie features quick release for repetitive access to cable and wire. Grip Ties are available in a variety of colors and are versatile enough for applications ranging from network installations to bundling power cords.

#### Features and Benefits

- Features quick release for repetitive access to cable and wire.
- Can be opened and closed numerous times without failure.
- Supplied on a roll to create custom lengths on demand.



PART NO.	TYPE	Length (L) ft. (m)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
GT.75X1800*	GT.75X180	15.0 (4.5)	0.8 (19.1)	PA66, PE	Black	1
GT.75X1802*		15.0 (4.5)	0.8 (19.1)	PA66, PE	Red	1
GT.75X1803*		15.0 (4.5)	0.8 (19.1)	PA66, PE	Orange	1
GT.75X1804*		15.0 (4.5)	0.8 (19.1)	PA66, PE	Yellow	1
GT.75X1805*		15.0 (4.5)	0.8 (19.1)	PA66, PE	Green	1
GT.75X1806*		15.0 (4.5)	0.8 (19.1)	PA66, PE	Blue	1
GT.75X18010*		15.0 (4.5)	0.8 (19.1)	PA66, PE	White	1
GT.75X1800W*	GT.75X180W	15.0 (4.5)	0.8 (19.1)	PA66, PE	Black	1
GT.75X6000	GT.75X600	50.0 (15.2)	0.8 (19.1)	PA66, PE	Black	1
GT.75X9000	GT.75X900	75.0 (22.9)	0.8 (19.1)	PA66, PE	Black	1
GT.75X9004		75.0 (22.9)	0.8 (19.1)	PA66, PE	Yellow	1

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### Hook and Loop Grip Ties

#### Low-Profile Grip Ties

The Low-Profile Grip Tie is a self gripping hook and loop strap that can be easily wrapped around a bundled and fastened onto themselves for a secure hold. The modest thickness of the back-to-back hook and loop is ideal for small areas without the worry of snagging.

#### Features and Benefits

- Features quick release for repetitive access to cable and wire.
- Can be opened and closed numerous times without failure.
- Head size is twice as wide as the strap to provide extra strength.
- Low-profile design provides dependable cable management in tight spaces.



PART NO.	TYPE	Length (L) in. (mm)	Width (W) in. (mm)	Width (W2) in. (mm)	Length (L2) in. (mm)	Material	Color	Pkg. Qty.
GTLP50X60P2	GTLP50X6	6.0 (152.4)	0.5 (12.7)	1.5 (25.4)	1.5 (38.1)	PA66, PE	Black	10
GTLP50X80P2	GTLP50X8	8.0 (203.2)	0.5 (12.7)	1.5 (25.4)	1.5 (38.1)	PA66, PE	Black	10
GTLP50X110P2	GTLP50X11	11.0 (279.4)	0.5 (12.7)	1.5 (25.4)	1.5 (38.1)	PA66, PE	Black	10

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

# Bundling and Securing

## Cable Ties

### Hook and Loop Grip Ties

#### Grip Ties for Plenum Applications

HellermannTyton offers UL 94 V-2 flame rated Grip Ties for use in air handling spaces. Grip Ties are UL Listed in accordance with the National Electric Code regulations. Grip Ties are low-profile, one-piece fastening devices. Constructed of a hook and loop design, laminated back to back, the Grip Tie features quick release for repetitive access to cable and wire. Grip Ties are available in a variety of colors and are versatile enough for applications ranging from network installations to bundling power cords.

#### Features and Benefits

- UL 94 V-2 flame rated material allows use in air handling spaces.
- Features quick release for repetitive access to cable and wire.
- Can be opened and closed numerous times without failure.
- Adjustable so one size can accommodate multiple bundle diameters.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Width (W2) in. (mm)	Length (L2) in. (mm)	Material	Color	Pkg. Qty.
GT.50X6MP2V2*	GT.50X6	40.0 (177.9)	6.0 (152.4)	1.0 (25.4)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA, PP	Maroon	10
GT.50X8MP2V2*	GT.50X8	40.0 (177.9)	8.0 (203.2)	1.9 (48.5)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA6, PP	Maroon	10
GT.50X12MP2V2*	GT.50X12	40.0 (177.9)	12.0 (304.8)	3.2 (80.8)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA6, PP	Maroon	10

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### Hook and Loop Grip Ties

#### 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.

#### Features and Benefits

- Features quick release for repetitive access to cable and wire.
- Can be opened and closed numerous times without failure.
- Adjustable so one size can accommodate multiple bundle sizes.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Width (W2) in. (mm)	Length (L2) in. (mm)	Material	Color	Pkg. Qty.
GT.50X60P2W	GT.50X6W	40.0 (177.9)	6.0 (152.4)	1.0 (25.4)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Black	10
GT.50X60C2W		40.0 (177.9)	6.0 (152.4)	1.0 (25.4)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Black	100
GT.50X80P2W	GT.50X8W	40.0 (177.9)	8.0 (203.2)	1.8 (44.5)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Black	10
GT.50X80C2W		40.0 (177.9)	8.0 (203.2)	1.8 (44.5)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Black	100
GT.50X110P2W	GT.50X11W	40.0 (177.9)	11.0 (279.4)	2.6 (66.8)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Black	10
GT.50X110C2W		40.0 (177.9)	11.0 (279.4)	2.6 (66.8)	0.5 (12.7)	1.0 (25.4)	1.5 (38.1)	PA66, PE	Black	100

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

# Bundling and Securing

## Cable Ties

### Aerial Support Ties

#### Extended Length Ties

Extended Length Ties support, secure, fasten, and space cables, as well as a variety of other applications requiring extra-long, extremely durable strapping. The high tensile strength strapping system consists of a continuous strap and separate locking head, making it suitable for any bundle diameter. The smooth strap and specially designed heads with stainless steel pawls provide a strong hold on cables and wires without damage during vibration or in extreme environments. Spacers are available for dual bundle applications.

#### Features and Benefits

- Continuous strap and separate heads allow for any bundle diameter, eliminating waste.
- Smooth strap prevents cable damage.
- UV resistant materials contain an inhibitor which prolongs the life of the tie in outdoor environments.



PART NO.	TYPE	Description	Material	Color	Pkg. Qty.
TELS-SPOOL	TELS-SPOOL	1 - 50ft. reel of strap	POM	Black	1
TELS-1	EL-TY (TELS1)	1 - 50ft. reel of strap and 30 heads	POM	Black	1
TELS-13	TELS-13	10 - 13.5" straps and 10 double-locking heads	POM	Black	10
TELS-27	TELS-27	10 - 27" straps and 10 double-locking heads	POM	Black	10
TELS-H	EL-TY (TELSH)	Double entry and locking heads	POM	Black	25
TELS-SPK2	EL-TY (TELS-SPK2)	EL-TY spacers	PP	Black	50

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

### Aerial Support Ties

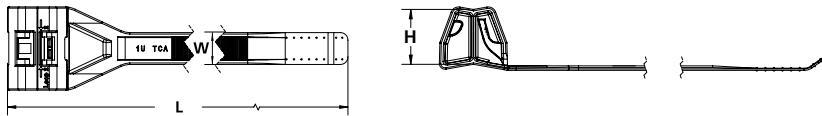
#### Spacer Ties

Aerial Support Spacer Ties feature a built-in spacer to separate cables from support wires and prevent abrasion. A one-piece design combining the tie and spacer into one part reduces installation time and inventory costs. The outside serrations along the strap prevent damage to cables. Formulated from a special nylon blend, these ties are specifically suited for long-term outdoor use. The bent tail allows for quick and simple installation by hand.



#### Features and Benefits

- UV resistant materials contain an inhibitor which prolongs the life of the tie in outdoor environments.
- One-piece design reduces installation time.
- Outside serrations prevent cable damage.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
111-01671	TAS120M	120.0 (535.0)	12.4 (270.0)	2.7 (70.0)	0.5 (12.7)	0.8 (19.0)	PA66HIRHSUV	Black	500
111-01672	TAS120L	120.0 (535.0)	17.4 (420.0)	4.5 (114.0)	0.5 (12.7)	0.8 (19.0)	PA66HIRHSUV	Black	500

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

# Bundling and Securing

## Cable Ties

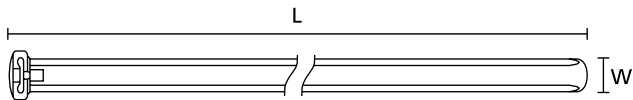
### Cable Ties - Special Function

#### Kabelrap Bundling System

The patented Kabelrap cable tie design offers a smooth strap which is locked into place with a glass fiber reinforced pin. The curved head design provides full circumferential compression around the bundle or harness. Once applied with the required KR6/8 manual tool, the tie offers a secure and vibration resistant assembly.

#### Features and Benefits

- Kabelrap tie offers a smooth strap providing secure assembly without damaging cables or hoses.
- Curved head design provides full circumferential compression which offers vibration resistance.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
121-63560	KR6/35	110.0 (490.0)	14.0 (360.0)	3.7 (93.0)	0.2 (6.1)	PA66UV	Black	50
121-82119	KR8/21	176.0 (785.0)	8.3 (210.0)	1.9 (47.0)	0.3 (8.0)	PA66	Natural	50
121-82160		176.0 (785.0)	8.3 (210.0)	1.9 (47.0)	0.3 (8.0)	PA66UV	Black	50
121-83378	KR8/33	176.0 (785.0)	13.3 (337.0)	3.4 (86.0)	0.3 (8.0)	PA46	Gray	50
121-83355		176.0 (785.0)	13.3 (337.0)	3.4 (86.0)	0.3 (8.0)	PA66HS	Natural	50
121-83360		176.0 (785.0)	13.3 (337.0)	3.4 (86.0)	0.3 (8.0)	PA66UV	Black	50
121-74359	KR8/43	176.0 (785.0)	16.8 (426.0)	4.1 (105.0)	0.3 (8.0)	PA66HS	Natural	50

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Required installation tool: 121-00680.

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### Cable Ties - Special Function

#### Wire Clamping Ties

Wire Clamping Cable Ties secure easily to wire frames for a tight fit and are available in four different wire frame sizes and two separate orientations to provide both perpendicular and parallel routing. The wire clamp design is ideally suited for easing the application process on the production floor by allowing for an easy snap fit of the harness assembly to the wire frame.

#### Features and Benefits

- Clamp provides low insertion and high extraction force.
- Various sizes available to accommodate all different bundle diameters.
- Clamp can be installed both before and after installation of bundles.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Attaches to Diameter in. (mm)	Material	Color	Pkg. Qty.	Drawing
148-00089	T50SOSWA1.8E	50.0 (225.0)	6.0 (150.0)	1.4 (35.0)	0.1 (1.8)	PA66HS	Black	500	
148-00090	T50SOSWB1.8E	50.0 (225.0)	6.0 (150.0)	1.4 (35.0)	0.1 (1.8)	PA66HS	Black	500	
148-00088	T50SOSWA2.0E	50.0 (225.0)	6.0 (150.0)	1.4 (35.0)	0.1 (2.2)	PA66HS	Black	500	
148-00093	T50SOSWB2.0E	50.0 (225.0)	6.0 (150.0)	1.4 (35.0)	0.1 (2.2)	PA66HS	Black	500	
148-00095	T50SOSWA3.4E	50.0 (225.0)	6.0 (150.0)	1.4 (35.0)	0.1 (3.4)	PA66HS	Black	500	
148-00096	T50SOSWB3.4E	50.0 (225.0)	6.0 (150.0)	1.4 (35.0)	0.1 (3.4)	PA66HS	Black	500	
148-00092	T50SOSWA4.3E	50.0 (225.0)	6.0 (150.0)	1.4 (35.0)	0.2 (4.3)	PA66HS	Black	500	
148-00091	T50SOSWB4.3E	50.0 (225.0)	6.0 (150.0)	1.4 (35.0)	0.2 (4.3)	PA66HS	Black	500	

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

# Bundling and Securing

## Cable Ties

### Cable Ties - Special Function

#### 1-Piece Fixing Ties with Pipe Clip

HellermannTyton's 1-Piece Cable Tie with Pipe Clip secures cables to tubular frame rails. The cable tie bundles wires, cables or tubes, and the C-clip snaps onto the tubular frame rail. The clip can be removed from the mounting surface and reinstalled without additional fasteners.

#### Features and Benefits

- Bundle can rotate to any orientation, allowing routing in any direction regardless of mounting point.
- Clip is reusable, making relocation or adjustments simple.
- All-in-one bundling and mounting solution reduces costs.

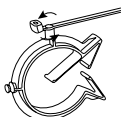
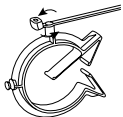
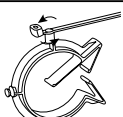
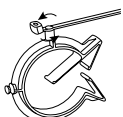
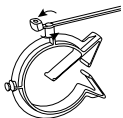
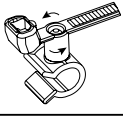
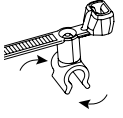
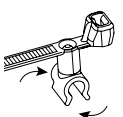
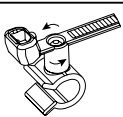


PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Attaches to Diameter in. (mm)	Material Cable Tie	Material Foot Part	Color	Pkg. Qty.	Drawing
156-02383	T50SMVCLOC10-14	50.0 (225.0)	8.3 (210.0)	2.0 (50.0)	0.4 - 0.6 (10.0 - 14.0)	PA66HIRHSUV	PA66HIRHSUV	Black	1000	
156-01690	T50SMVCLOC15-19	50.0 (225.0)	8.3 (210.0)	2.0 (50.0)	0.6 - 0.8 (15.0 - 19.0)	PA66HIRHS	PA66HIRHS	Black	1000	
156-01714	T50SMVCLOC20-25	50.0 (225.0)	8.3 (210.0)	2.0 (50.0)	0.8 - 1.0 (20.0 - 25.0)	PA66HIRHS	PA66HIRHS	Black	1000	
156-02384	T50SMVCLOC5-9	50.0 (225.0)	8.3 (210.0)	2.0 (50.0)	0.2 - 0.4 (5.0 - 9.0)	PA66HIRHS	PA66HIRHS	Black	1000	
156-01340	T50SMVCO15-18	50.0 (222.0)	8.3 (210.0)	2.0 (50.0)	0.6 - 0.7 (15.0 - 18.0)	PA66HS	PA66HIRHS	Black	500	

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

### Cable Ties - Special Function

#### 1-Piece Fixing Ties with Pipe Clip

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Attaches to Diameter in. (mm)	Material Cable Tie	Material Foot Part	Color	Pkg. Qty.	Drawing
156-00577	T50SMVCOC19-24.5	50.0 (222.0)	8.3 (210.0)	2.0 (50.0)	0.8 - 1.0 (19.0 - 24.5)	PA46	PA46	Gray	500	
156-01342		50.0 (222.0)	8.3 (210.0)	2.0 (50.0)	0.8 - 1.0 (19.0 - 24.5)	PA66HS	PA66HIRHS	Black	500	
156-01344	T50SMVCOC25-31	50.0 (222.0)	8.3 (210.0)	2.0 (50.0)	1.0 - 1.2 (25.0 - 31.0)	PA66HS	PA66HIRHS	Black	250	
156-01346	T50SMVCOC31-39	50.0 (222.0)	8.3 (210.0)	2.0 (50.0)	1.2 - 1.5 (31.0 - 39.0)	PA66HS	PA66HIRHS	Black	250	
156-01348	T50SMVCOC39-45	50.0 (222.0)	8.3 (210.0)	2.0 (50.0)	1.5 - 1.8 (39.0 - 45.0)	PA66HS	PA66HIRHS	Black	250	
156-01350	T50SVC3.5	50.0 (222.0)	6.1 (155.0)	1.4 (35.0)	0.1 - 0.1 (3.5 - 3.6)	PA66HS	PA66HIRHS	Black	500	
156-01349	T50SVC4S	50.0 (222.0)	6.1 (155.0)	1.4 (35.0)	0.2 - 0.2 (3.8 - 4.2)	PA66HS	PP	Black	500	
156-01516	T50SVC5	50.0 (222.0)	6.1 (155.0)	1.4 (35.0)	0.2 - 0.2 (4.5 - 5.2)	PA66HS	PA66HS	Black	500	
156-01670	T50SVC6.5	50.0 (222.0)	6.1 (155.0)	1.4 (35.0)	0.3 - 0.3 (6.5 - 8.0)	PA66HS	PA66HIRHS	Black	500	

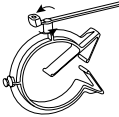
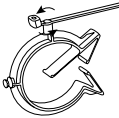
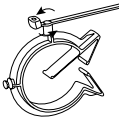
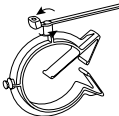
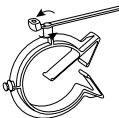
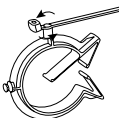
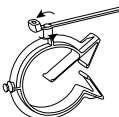
Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

# Bundling and Securing

## Cable Ties

### Cable Ties - Special Function

#### 1-Piece Fixing Ties with Pipe Clip

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Attaches to Diameter in. (mm)	Material Cable Tie	Material Foot Part	Color	Pkg. Qty.	Drawing
156-01385	T50SVCOC10-14	50.0 (222.0)	6.1 (155.0)	1.4 (35.0)	0.4 - 0.6 (10.0 - 14.0)	PA46	PA46	Gray	500	
156-01337		50.0 (222.0)	6.1 (155.0)	1.4 (35.0)	0.4 - 0.6 (10.0 - 14.0)	PA66HS	PA66HIRHS	Black	500	
156-01339	T50SVCOC15-18	50.0 (222.0)	6.1 (155.0)	1.4 (35.0)	0.6 - 0.7 (15.0 - 18.0)	PA66HS	PA66HIRHS	Black	500	
156-01341	T50SVCOC19-24.5	50.0 (222.0)	6.1 (155.0)	1.4 (35.0)	0.8 - 1.0 (19.0 - 24.5)	PA66HS	PA66HIRHS	Black	500	
156-01343	T50SVCOC25-31	50.0 (222.0)	6.1 (155.0)	1.4 (35.0)	1.0 - 1.2 (25.0 - 31.0)	PA66HS	PA66HIRHS	Black	250	
156-01345	T50SVCOC31-39	50.0 (222.0)	6.1 (155.0)	1.4 (35.0)	1.2 - 1.5 (31.0 - 39.0)	PA66HS	PA66HIRHS	Black	250	
156-01347	T50SVCOC39-45	50.0 (222.0)	6.1 (155.0)	1.4 (35.0)	1.5 - 1.8 (39.0 - 45.0)	PA66HS	PA66HIRHS	Black	250	

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

### Cable Ties - Special Function

#### 2-Piece Fixing Ties with Pipe Clip

HellermannTyton's 2-Piece Cable Tie with Pipe Clip secures cables to tubular frame rails. The cable tie bundles wires, cables or tubes, and the C-clip snaps onto the tubular frame rail. The clip can be removed from the mounting surface and reinstalled without additional fasteners.

#### Features and Benefits

- Bundle can rotate to any orientation, allowing routing in any direction regardless of mounting point.
- 2-piece design allows installer to slide clip around cable tie to obtain optimum orientation
- Clip is reusable, making relocation or adjustments simple.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Attaches to Diameter in. (mm)	Material Cable Tie	Material Foot Part	Color	Pkg. Qty.	Drawing
156-00012	T30ROC1A	30.0 (135.0)	5.8 (148.0)	1.2 (31.0)	0.2 - 0.4 (4.0 - 10.0)	PA66HS	PA66HIRHS	Black	500	
156-00014	T30ROC2A	30.0 (135.0)	5.8 (148.0)	1.2 (31.0)	0.3 - 0.3 (6.5 - 7.5)	PA46	PA46	Gray	500	
156-00013		30.0 (135.0)	5.8 (148.0)	1.2 (31.0)	0.3 - 0.3 (6.5 - 7.5)	PA66HS	PA66HIRHS	Black	500	
156-00838	T30ROC2B	30.0 (135.0)	5.8 (148.0)	1.2 (31.0)	0.3 - 0.3 (6.5 - 7.5)	PA46	PA66HIRHS	Natural, Black	500	
156-00520	T30ROC5J	30.0 (135.0)	6.0 (152.0)	1.2 (31.0)	0.4 (11.0)	PA66HSUV	PA66HSUV	Black	100	

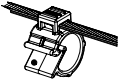
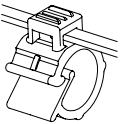




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Installation tools: EVO7, EVO7SP, MK7HT, MK7P.

# Bundling and Securing

## Cable Ties

### Cable Ties - Special Function

#### 2-Piece Fixing Ties with Pipe Clip

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Attaches to Diameter in. (mm)	Material Cable Tie	Material Foot Part	Color	Pkg. Qty.	Drawing
156-00895	T30ROC5J-P	30.0 (135.0)	6.0 (152.0)	1.2 (31.0)	0.4 (11.0)	PA66HS	PA66HS	Gray	2000	
156-00894		30.0 (135.0)	6.0 (152.0)	1.2 (31.0)	0.4 (11.0)	PA66HSUV	PA66HSUV	Black	100	
156-01795	T50IOC1B	50.0 (225.0)	12.0 (305.0)	1.8 (45.0)	0.2 - 0.4 (4.0 - 10.0)	PA66HS	PA66HIRHS	Black	500	
156-01060	T50IOC2A	50.0 (225.0)	12.0 (305.0)	1.8 (45.0)	0.2 - 0.4 (4.0 - 10.0)	PA66HS	PA66HIRHS	Black	500	
156-01031	T50LOC1A	50.0 (225.0)	15.4 (390.0)	1.8 (45.0)	0.2 - 0.4 (4.0 - 10.0)	PA66HIRHSUV	PA66HIRHSUV	Black	3000	
156-00036	T50ROC1A	50.0 (225.0)	8.0 (202.0)	1.8 (45.0)	0.2 - 0.4 (4.0 - 10.0)	PA66HS	PA66HIRHS	Black	500	

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, MK7HT, MK7P.

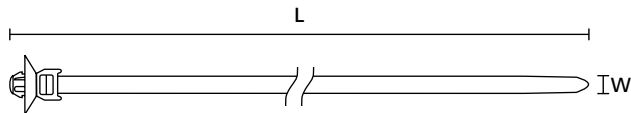
### Arrowhead Mount Cable Ties

#### Domed Low Profile Push Mount Ties

The low-profile push mount design provides an overall shortened length, which assists in limiting protrusion on the opposing side of application surfaces. The mount's rounded tip allows for a smoother surface in case of contact with surrounding components or hands. The dome provides firm, rattle-free performance and keeps out debris. One-piece mounting ties offer a complete solution by both bundling and mounting.

#### Features and Benefits

- All-in-one bundling and mounting solution reduces costs.
- Low-profile design provides dependable cable management in tight spaces.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Dia. in. (mm)	Panel Thickness in. (mm)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
126-00111	T50SOSKSFT5SE	40.0 (180.0)	0.19 - 0.20 (4.8 - 5.2)	0.02 - 0.05 (0.7 - 1.3)	6.1 (156.0)	1.4 (35.0)	0.2 (4.6)	PA66HS	Natural	1000
126-00099		40.0 (180.0)	0.19 - 0.21 (4.8 - 5.2)	0.03 - 0.05 (0.7 - 1.3)	6.0 (156.0)	1.4 (35.0)	0.2 (4.6)	PA66HS	Black	1000
126-00081	T50SOSKSFT6.5E	40.0 (180.0)	0.25 - 0.26 (6.3 - 6.7)	0.03 - 0.05 (0.7 - 1.3)	6.0 (156.0)	1.4 (35.0)	0.2 (4.6)	PA66HS	Black	500
126-00075	T50SOSKSFT5.4E	50.0 (225.0)	0.20 - 0.22 (5.2 - 5.6)	0.03 - 0.05 (0.7 - 1.3)	6.0 (156.0)	1.4 (35.0)	0.2 (4.6)	PA66HS	Black	500
126-00326	T50SOSKSFT6.5S2-E	50.0 (225.0)	0.25 - 0.26 (6.3 - 6.7)	0.07 - 0.09 (1.7 - 2.3)	6.0 (157.0)	1.4 (35.0)	0.2 (4.6)	PA66HS	Black	500

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

# Bundling and Securing

## Self-Affixing Cable Ties

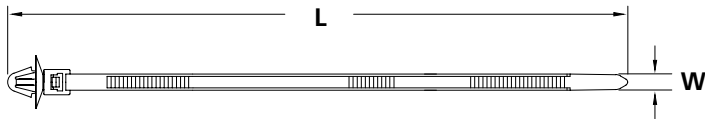
### Arrowhead Mount Cable Ties

#### Domed Push Mount Ties

The Domed Push Mount Tie provides a tight, rattle-free installation and acts as a seal to keep out dust and debris. One-piece mounting ties offer a complete solution by both bundling cable and at the same time providing a mounting solution.

#### Features and Benefits

- An all-in-one bundling and fixing solution reduces costs.
- Disc provides secure insertion and minimizes access of dust, dirt and water.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Dia. in. (mm)	Panel Thickness in. (mm)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
126-02300	T50SST5	50.0 (225.0)	0.24 - 0.26 (6.1 - 6.5)	0.03 - 0.06 (0.7 - 1.5)	7.0 (170.0)	1.2 (31.0)	0.2 (4.6)	PA66	Natural	1000
126-00017		50.0 (225.0)	0.24 - 0.26 (6.1 - 6.5)	0.03 - 0.06 (0.7 - 1.5)	7.0 (170.0)	1.2 (31.0)	0.2 (4.6)	PA66HS	Black	1000
150-15395		50.0 (225.0)	0.24 - 0.26 (6.1 - 6.5)	0.03 - 0.06 (0.7 - 1.5)	7.0 (170.0)	1.2 (31.0)	0.2 (4.6)	PA66HIRHS	Black	1000
126-00015	T50SDOP	50.0 (225.0)	0.24 - 0.27 (6.2 - 12.2)	0.04 - 0.08 (1.0 - 1.9)	6.3 (160.0)	1.2 (30.0)	0.2 (5.0)	PA66HS	Black	500
126-00114	T50ROSAH6U	50.0 (225.0)	0.24 - 0.27 (6.1 - 6.9)	0.07 - 0.12 (1.8 - 3.0)	8.5 (215.9)	2.0 (50.0)	0.2 (5.0)	PA66HIRHS	Natural	500
126-00115		50.0 (225.0)	0.24 - 0.27 (6.1 - 6.9)	0.07 - 0.12 (1.8 - 3.0)	8.5 (215.9)	2.0 (50.0)	0.2 (5.0)	PA66HIRHS	Black	500
126-03102	T50SOSSFT6.5E	50.0 (225.0)	0.25 - 0.26 (6.3 - 6.7)	0.07 - 0.10 (1.9 - 2.5)	6.0 (158.8)	1.2 (30.0)	0.2 (4.6)	PA66HS	Black	500
T50SD60HSH4	T50SD6	50.0 (200.0)	0.25 - 0.30 (6.3 - 7.5)	0.02 - 0.07 (0.6 - 1.8)	6.0 (160.0)	1.2 (31.0)	0.2 (5.0)	PA66HS	Black	500
111-85850	T50MD7	50.0 (225.0)	0.27 - 0.28 (6.8 - 7.2)	0.03 - 0.08 (1.2 - 2.0)	9.0 (225.0)	2.3 (59.0)	0.2 (5.0)	PA66HS	Black	100
126-00183	PT2ASFT6.5 PT0.7-1.5-E	51.7 (230.0)	0.24 - 0.26 (6.3 - 6.7)	0.03 - 0.06 (0.7 - 1.5)	4.4 (112.7)	0.8 (20.0)	0.1 (3.4)	PEEK	Beige	7000

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.



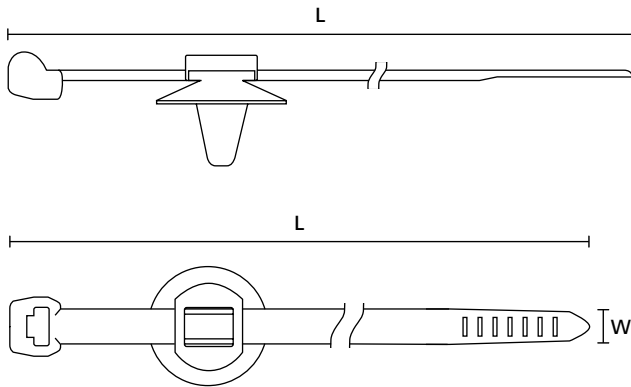
### Arrowhead Mount Cable Ties

#### 2-Piece Arrowhead Ties

HellermannTyton's Arrowhead Push Mount Tie Assembly is a two piece design allowing the mount to slide along the strap of the tie to ensure proper orientation. The arrowhead mount is designed for low insertion into a pre-drilled hole, while providing a high extraction force. The disc also protects against dirt and other impurities.

#### Features and Benefits

- Two-piece assembly allows mount to slide along strap, ensuring proper orientation.
- Arrowhead-style mount provides low insertion and high extraction force.
- Multiple material options provide solutions for any environment.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Dia. in. (mm)	Panel Thickness in. (mm)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material Cable Tie	Material Arrowhead	Color	Pkg. Qty.
150-37791	T50ROSS FT6.5 16-3	50.0 (225.0)	0.25 - 0.26 (6.3 - 6.7)	0.10 - 0.14 (2.5 - 3.5)	7.9 (200.0)	1.8 (45.0)	0.2 (4.6)	PA66HS	PA66HIRHS	Black	500
156-01090	PT2AP1SFT6.5	51.7 (230.0)	0.25 - 0.26 (6.3 - 6.7)	0.03 - 0.05 (0.7 - 1.3)	5.7 (145.0)	1.4 (35.0)	0.1 (3.4)	PEEK	PEEK	Beige	500
156-01091	PT2AP2SFT6.5	51.7 (230.0)	0.25 - 0.26 (6.3 - 6.7)	0.07 - 0.09 (1.7 - 2.3)	5.7 (145.0)	1.4 (35.0)	0.1 (3.4)	PEEK	PEEK	Beige	500
156-01146	PT2AP3SFT6.5	51.7 (230.0)	0.25 - 0.26 (6.3 - 6.7)	0.05 - 0.07 (1.2 - 1.8)	5.7 (145.0)	1.3 (32.0)	0.1 (3.4)	PEEK	PEEK	Beige	100

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

# Bundling and Securing

## Self-Affixing Cable Ties

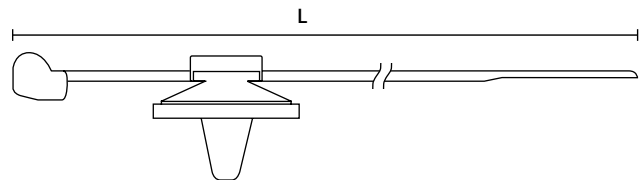
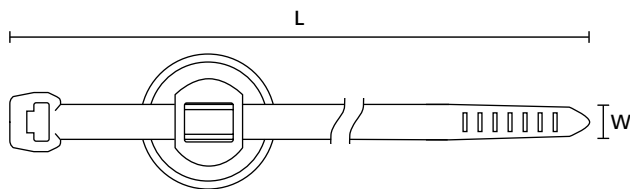
### Arrowhead Mount Cable Ties

#### 2-Piece Arrowhead Ties with Seal

HellermannTyton's Arrowhead Push Mount Tie Assembly is a two piece design allowing the mount to slide along the strap of the tie to ensure proper orientation. The arrowhead mount is designed for low insertion into a pre-drilled hole, while providing a high extraction force. The disc with seal minimizes the ingress of dirt, debris and water.

#### Features and Benefits

- Two piece assembly allows the mount to slide along the strap ensuring proper orientation.
- Arrowhead style mount provides low insertion and high extraction force.
- Arrowhead disc protects against dirt and other impurities.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Dia. in. (mm)	Panel Thickness in. (mm)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material Cable Tie	Material Arrowhead	Color	Pkg. Qty.
150-37799	T50ROSSFT 6.5 16-3MD	50.0 (225.0)	0.24 - 0.28 (6.1 - 7.0)	0.10 - 0.12 (2.5 - 3.0)	7.9 (200.0)	1.8 (45.0)	0.2 (4.6)	PA66HS	PA66HIRHS	Black	500
150-93100	T50ROSSFT 6.5-D16-2 MD	50.0 (222.0)	0.25 - 0.26 (6.3 - 6.7)	0.03 - 0.79 (0.7 - 1.8)	7.9 (200.0)	1.8 (45.0)	0.2 (4.6)	PA66HS	PA66HIRHS	Black	500

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

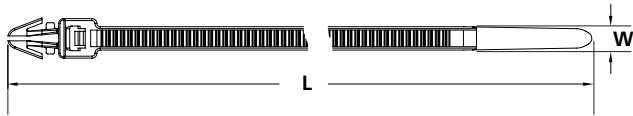
### Arrowhead Mount Cable Ties

#### Push Mount Ties

One-piece mounting ties offer a complete solution by both bundling cable and simultaneously providing a mounting solution. The arrowhead design of this push mount inserts easily and locks securely in place. HellermannTyton's one-piece mounting ties combine high-specification materials with superior design to deliver dependable performance in a range of applications.

#### Features and Benefits

- All-in-one bundling and fastening solution reduces costs and assembly time.
- The arrowhead design of these ties offers a low insertion force and a high extraction force.
- High-spec materials and superior design deliver versatility, performance and value.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Dia. in. (mm)	Panel Thickness in. (mm)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
T30RSF9C2*	T30RSF(U)	30.0 (136.0)	0.19 - 0.22 (4.7 - 5.6)	0.03 - 0.09 (0.75 - 2.1)	6.3 (158.0)	1.3 (32.0)	0.1 (3.6)	PA66	Natural	100
T30RSF9M4*		30.0 (135.0)	0.19 - 0.22 (4.7 - 5.6)	0.04 - 0.09 (0.9 - 2.4)	6.3 (161.0)	1.3 (31.0)	0.1 (3.6)	PA66	Natural	1000
T30RSF0C2*		30.0 (135.0)	0.19 - 0.22 (4.7 - 5.6)	0.04 - 0.09 (0.9 - 2.4)	6.3 (161.0)	1.3 (31.0)	0.1 (3.6)	PA66HS	Black	100
T30RSF0M4*		30.0 (135.0)	0.19 - 0.22 (4.7 - 5.6)	0.04 - 0.09 (0.9 - 2.4)	6.3 (161.0)	1.3 (31.0)	0.1 (3.6)	PA66HS	Black	1000
126-00043*	T50SSF	50.0 (225.0)	0.25 - 0.28 (6.4 - 7.1)	0.04 - 0.14 (1.0 - 3.56)	6.3 (159.0)	1.4 (35.0)	0.2 (4.7)	PA66	Natural	100
126-00044*		50.0 (225.0)	0.25 - 0.28 (6.4 - 7.1)	0.04 - 0.14 (1.0 - 3.56)	6.3 (159.0)	1.4 (35.0)	0.2 (4.7)	PA66	Natural	1000
126-00045*		50.0 (225.0)	0.25 - 0.28 (6.4 - 7.1)	0.04 - 0.14 (1.0 - 3.56)	6.3 (159.0)	1.4 (35.0)	0.2 (4.7)	PA66HS	Black	100
126-00046*		50.0 (225.0)	0.25 - 0.28 (6.4 - 7.1)	0.04 - 0.14 (1.0 - 3.56)	6.3 (159.0)	1.4 (35.0)	0.2 (4.7)	PA66HS	Black	1000

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

# Bundling and Securing

## Self-Affixing Cable Ties

### Arrowhead Mount Cable Ties

#### Push Mount Ties

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Dia. in. (mm)	Panel Thickness in. (mm)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
T50RSF9C2*	T50RSF(U)	50.0 (225.0)	0.25 - 0.28 (6.4 - 7.1)	0.04 - 0.14 (1.0 - 3.56)	8.3 (210.0)	1.7 (44.0)	0.2 (4.7)	PA66	Natural	100
T50RSF9M4*		50.0 (225.0)	0.25 - 0.28 (6.4 - 7.1)	0.04 - 0.14 (1.0 - 3.56)	8.3 (210.0)	1.7 (44.0)	0.2 (4.7)	PA66	Natural	1000
T50RSF0C2*		50.0 (225.0)	0.25 - 0.28 (6.4 - 7.1)	0.04 - 0.14 (1.0 - 3.56)	8.3 (210.0)	1.7 (44.0)	0.2 (4.7)	PA66HS	Black	100
T50RSF0M4*		50.0 (225.0)	0.25 - 0.28 (6.4 - 7.1)	0.04 - 0.14 (1.0 - 3.56)	8.3 (210.0)	1.7 (44.0)	0.2 (4.7)	PA66HS	Black	1000

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

### Arrowhead Mount Cable Ties

#### Wing Push Mount Ties

Wing design helps stabilize the tie in high vibration applications. One-piece mounting ties offer a complete solution by both bundling cable and at the same time providing a mounting solution. HellermannTyton's one-piece mounting ties offer the ideal combination of high specification materials and superior design to suit the mounting and bundling needs of complex applications.

#### Features and Benefits

- Two piece assembly allows the mount to slide along the strap ensuring proper orientation.
- Arrowhead style mount provides low insertion and high extraction force.
- Arrowhead disc protects against dirt and other impurities.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Dia. in. (mm)	Panel Thickness in. (mm)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.	Drawing
111-85519	T18RSF	18.0 (80.0)	0.18 - 0.19 (4.6 - 4.8)	0.03 - 0.12 (0.8 - 3.0)	4.0 (100.0)	0.6 (16.0)	0.1 (2.5)	PA66HS	Natural	100	
111-85560		18.0 (80.0)	0.18 - 0.19 (4.6 - 4.8)	0.03 - 0.12 (0.8 - 3.0)	4.0 (100.0)	0.6 (16.0)	0.1 (2.5)	PA66UV	Black	100	
126-00042*	T18RWPM	18.0 (80.0)	0.19 - 0.22 (4.8 - 5.6)	0.06 - 0.13 (1.52 - 3.2)	4.5 (113.0)	0.9 (22.0)	0.1 (2.5)	PA66HS	Black	1000	
T18RWP M9M4*		18.0 (80.0)	0.19 - 0.22 (4.8 - 5.6)	0.06 - 0.13 (1.52 - 3.2)	4.5 (113.0)	0.9 (22.0)	0.1 (2.5)	PA66	Natural	1000	
126-00041*		18.0 (80.0)	0.19 - 0.22 (4.8 - 5.6)	0.06 - 0.13 (1.52 - 3.2)	4.5 (113.0)	0.9 (22.2)	0.1 (2.5)	PA66	Natural	100	

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.



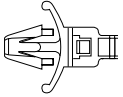
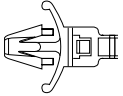
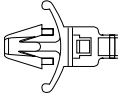
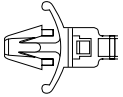
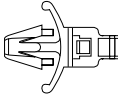
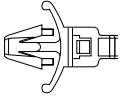
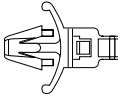
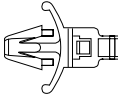
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# Bundling and Securing

## Self-Affixing Cable Ties

### Arrowhead Mount Cable Ties

#### Wing Push Mount Ties

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Dia. in. (mm)	Panel Thickness in. (mm)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.	Drawing
126-00074	T50RSFM	50.0 (225.0)	0.24 - 0.26 (6.0 - 6.6)	0.03 - 0.12 (0.7 - 3.0)	8.0 (200.0)	1.8 (45.0)	0.2 (4.6)	PA66HS	Black	100	
126-00117		50.0 (225.0)	0.24 - 0.26 (6.0 - 6.6)	0.03 - 0.12 (0.7 - 3.0)	8.0 (200.0)	1.8 (45.0)	0.2 (4.6)	PA66	Natural	500	
126-00116		50.0 (225.0)	0.24 - 0.26 (6.0 - 6.6)	0.03 - 0.12 (0.7 - 3.0)	8.0 (205.0)	1.8 (45.0)	0.2 (4.6)	PA66HS	Black	500	
111-85720		50.0 (225.0)	0.24 - 0.26 (6.0 - 6.6)	0.03 - 0.12 (0.7 - 3.0)	8.0 (205.0)	1.8 (45.0)	0.2 (4.6)	PA66HS	Black	500	
126-00001	T50SL5	50.0 (222.0)	0.24 - 0.26 (6.1 - 6.5)	0.03 - 0.10 (0.8 - 2.5)	6.5 (165.0)	1.3 (34.0)	0.2 (4.7)	PA66HS	Black	500	
126-00005		50.0 (222.0)	0.24 - 0.26 (6.1 - 6.5)	0.03 - 0.11 (0.8 - 2.7)	6.5 (163.0)	1.3 (34.0)	0.2 (4.6)	PA66HIRHS	Black	500	
111-85460	T50SL6	50.0 (225.0)	0.25 - 0.30 (6.3 - 7.5)	0.02 - 0.10 (0.5 - 2.5)	6.5 (165.0)	1.3 (34.0)	0.2 (4.6)	PA66	Black	500	
T50SL6. NN6P		50.0 (225.0)	0.25 - 0.30 (6.3 - 7.5)	0.02 - 0.10 (0.5 - 2.5)	6.5 (165.0)	1.3 (34.0)	0.2 (4.6)	PA66	Natural	500	

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

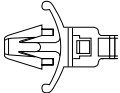
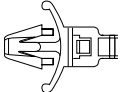
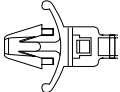
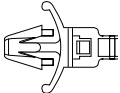
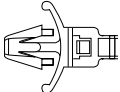
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.



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### Arrowhead Mount Cable Ties

#### Wing Push Mount Ties

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Dia. in. (mm)	Panel Thickness in. (mm)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.	Drawing
T50SL7. NN6P	T50SL7	50.0 (225.0)	0.27 - 0.28 (6.9 - 7.1)	0.03 - 0.10 (0.8 - 2.5)	6.5 (165.0)	1.3 (34.0)	0.2 (4.6)	PA66	Natural	500	
126-00082	T50SSFMM	50.0 (225.0)	0.24 - 0.26 (6.0 - 6.6)	0.03 - 0.12 (0.7 - 3.0)	6.3 (160.0)	1.4 (35.0)	0.2 (4.6)	PA66HIRHS	Natural	500	
126-00049		50.0 (225.0)	0.24 - 0.26 (6.0 - 6.6)	0.03 - 0.12 (0.7 - 3.0)	6.3 (160.0)	1.4 (35.0)	0.2 (4.6)	PA66HIRHS	Black	500	
126-00069		50.0 (225.0)	0.24 - 0.26 (6.0 - 6.6)	0.03 - 0.12 (0.7 - 3.0)	6.3 (160.0)	1.4 (35.0)	0.2 (4.6)	PA66	Natural	500	
126-02204	T50SSL5	50.0 (200.0)	0.24 - 0.26 (6.1 - 6.5)	0.02 - 0.11 (0.5 - 2.7)	5.3 (135.0)	1.0 (27.0)	0.2 (4.6)	PA66HS	Black	500	

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.



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# Bundling and Securing

## Self-Affixing Cable Ties

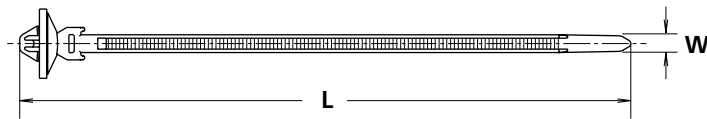
### Arrowhead Mount Cable Ties

#### Push Mount Ties with Seal - Round Holes

The arrowhead design of these ties offers a low insertion force and a high extraction force. The foam rubber seal provides additional protection against moisture and debris. One-piece mounting ties offer a complete solution by simultaneously bundling and mounting cables, wires and hoses.

#### Features and Benefits

- An all-in-one bundling and fastening solution that saves time and reduces costs.
- Foam seal prevents ingress of moisture and debris and prevents vibration.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Dia. in. (mm)	Panel Thickness in. (mm)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
126-00245	T50SOSSFT6.5E-MS-MD	40.0 (180.0)	0.25 - 0.27 (6.4 - 7.0)	0.03 - 0.07 (0.7 - 1.8)	6.5 (163.0)	1.4 (35.0)	0.2 (4.6)	PA66HS	Natural	500
156-00444	T50ROSAH6MDU	50.0 (225.0)	0.25 - 0.25 (6.2 - 6.6)	0.03 - 0.08 (0.8 - 2.1)	8.5 (216.0)	2.0 (50.0)	0.2 (5.0)	PA66HIRHS	Natural	500
126-00243	T50SOSSFT6.5E-MD	50.0 (225.0)	0.25 - 0.26 (6.3 - 6.7)	0.02 - 0.07 (0.6 - 1.8)	6.3 (158.8)	1.2 (30.0)	0.2 (4.6)	PA66HS	Green	500
126-00244		50.0 (225.0)	0.25 - 0.26 (6.3 - 6.7)	0.02 - 0.07 (0.6 - 1.8)	6.3 (158.8)	1.2 (30.0)	0.2 (4.6)	PA66HS	Black	500

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.



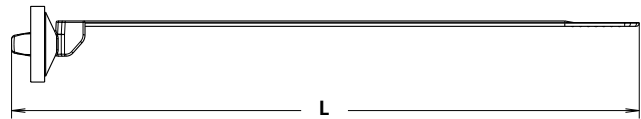
### Arrowhead Mount Cable Ties

#### Push Mount Ties with Seal for Oval Holes

Push Mount Ties with Seal for Oval Holes provide a one-piece bundling and mounting solution. The oval arrowhead fastener won't rotate once inserted into a panel hole, ensuring proper routing of wires and hoses. The welded rubber seal protects against the ingress of water and debris.

#### Features and Benefits

- Design helps silence and stabilize the tie in high-vibration applications.
- Arrowhead-style mount provides low insertion and high extraction force.
- Anti-rotational oval fastener forces bundle to travel in intended direction.
- Rubber seal restricts water and debris from passing through mounting hole.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Dia. in. (mm)	Panel Thickness in. (mm)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width in. (mm)	Material	Color	Pkg. Qty.
126-00080	T60SOSSFT62x122-E-MD	67.0 (300.0)	0.24 - 0.48 (6.2 x 12.2)	0.02 - 0.08 (0.6 - 2.0)	6.2 (157.5)	1.2 (30.0)	0.2 (5.5)	PA66HS	Black	500
126-00076	T60SOSSFT65x130-E-MD	67.0 (300.0)	0.25 - 0.51 (6.5 x 13.0)	0.02 - 0.08 (0.6 - 2.0)	6.0 (157.6)	1.2 (30.0)	0.2 (5.5)	PA66HS	Natural	500
126-00186	T60SOSSFT65x130-E-MS-MD	67.0 (300.0)	0.26 - 0.51 (6.5 x 13.0)	0.02 - 0.08 (0.6 - 2.0)	6.2 (158.0)	1.2 (30.0)	0.2 (5.5)	PA66HS	Black	500
126-00079	T60SOSSFT70x120-E-MD	67.0 (300.0)	0.28 - 0.47 (7.0 x 12.0)	0.03 - 0.08 (0.6 - 2.0)	6.2 (157.7)	1.2 (30.0)	0.2 (5.5)	PA66HS	Black	500

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

# Bundling and Securing

## Self-Affixing Cable Ties

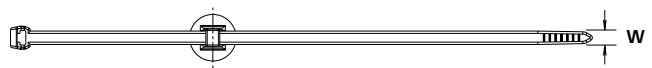
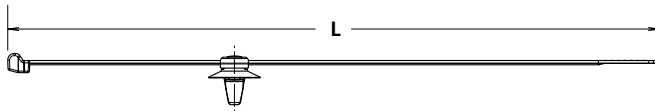
### Arrowhead Mount Cable Ties

#### Push Mount Ties with Disc

The Arrowhead Mount Tie is a two-piece bundling and fastening solution that delivers strong extraction force. The cap blocks debris ingress through the mounting hole. This convenient combination is used in many markets, including automobile, aircraft and appliance.

#### Features and Benefits

- The arrowhead design of this push mount offers a low insertion force and a high extraction force.
- Integrated cap keeps out debris.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Dia. in. (mm)	Panel Thickness in. (mm)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material Cable Tie	Material Arrowhead	Color	Pkg. Qty.
156-00455	T50ROS P1SFT6.5	50.0 (225.0)	0.25 - 0.26 (6.3 - 6.7)	0.03 - 0.05 (0.7 - 1.3)	7.9 (200.0)	1.8 (45.0)	0.2 (4.6)	PA46	PEEK	Gray, Beige	100
156-00456	T50ROS P2SFT6.5	50.0 (225.0)	0.25 - 0.26 (6.3 - 6.7)	0.07 - 0.09 (1.7 - 2.3)	7.9 (200.0)	1.8 (45.0)	0.2 (4.6)	PA46	PEEK	Gray, Beige	100

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

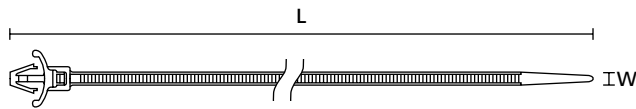
### Arrowhead Mount Cable Ties

#### Releasable Wing Push Mount Ties

One-piece mounting ties offer a complete solution by bundling cables while at the same time providing a mounting solution. This tie features an extended pawl, allowing the user to release the tie for bundle maintenance. Push mount ties offer the ideal combination of high specification materials and superior design to suit the mounting and bundling needs of complex applications.

#### Features and Benefits

- An all-in-one bundling and fixing solution reduces costs.
- High-specification materials and superior design suit the fixing and bundling needs of complex applications.
- Releasable to provide quick access to bundles.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Dia. in. (mm)	Panel Thickness in. (mm)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
115-06960	RT50SFK	50.0 (225.0)	0.25 - 0.28 (6.4 - 7.0)	0.03 - 0.31 (0.8 - 3.0)	9.0 (225.0)	2.0 (50.0)	0.2 (5.0)	PA66	Black	1000

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

# Bundling and Securing

## Self-Affixing Cable Ties

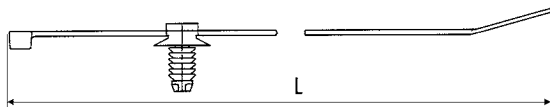
### Fir Tree Mount Cable Ties

#### 2-Piece Fir Tree Mount and Cable Tie Assemblies

HellermannTyton's fir tree mounts provide a secure grip in a mounting hole. The mount can slide along the cable tie to adjust orientation as needed. Fir tree mounts are designed to provide a low insertion force and high extraction force. This mount is sold as an assembly with the cable tie.

#### Features and Benefits

- Friction tab inside the fir tree allows the tie to sit in mount without falling out prior to installation.
- Fir tree provides low insertion effort yet demonstrates high extraction resistance.
- Disc feature prevents rattling in high-vibration applications and protects against debris ingress.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Max. Bundle Diameter in. (mm)	Length (L) in. (mm)	Mounting Hole Dia. in. (mm)	Panel Thickness in. (mm)	Material Cable Tie	Material Fir Tree	Color	Pkg. Qty.
156-00953	T30RFT4	30.0 (135.0)	1.4 (35.0)	6.0 (148.0)	0.13 - 0.16 (3.3 - 4.0)	0.04-0.12 (1.0-3.0)	PA66HS	PA66HIRHS	Black	500
150-55948	T30RFT5	30.0 (135.0)	1.4 (34.0)	6.0 (150.0)	0.17 - 0.2 (4.5 - 5.0)	0.03-0.12 (0.7-3.0)	PA46	PA46	Natural, Gray	500
150-55850		30.0 (135.0)	1.4 (34.0)	6.0 (150.0)	0.17 - 0.2 (4.5 - 5.0)	0.03-0.12 (0.7-3.0)	PA66HS	PA66HIRHS	Black	500
150-31090	T30RFT6LG	30.0 (135.0)	1.4 (30.0)	6.0 (148.0)	0.25 - 0.28 (6.5 - 7.0)	0.03-0.24 (0.75-6.0)	PA66HS	PA66HIRHS	Black	500
150-77940	T30RFT6	30.0 (135.0)	1.4 (35.0)	6.0 (148.0)	0.25 - 0.28 (6.4 - 7.1)	0.03-0.12 (0.75-3.0)	PA66HS	PA66HIRHS	Black	500
156-00057	T30RFT7	30.0 (135.0)	1.4 (35.0)	6.0 (150.0)	0.26 - 0.28 (6.5 - 7.0)	0.03-0.28 (0.8-7.0)	PA66HS	PA66HS	Black	500
156-00375	T30RFT8	30.0 (135.0)	1.4 (36.0)	6.0 (148.0)	0.3 - 0.31 (7.7 - 8.0)	0.03-0.31 (0.8-7.9)	PA66HS	PA66HS	Black	500
156-00089	T30RFT10	30.0 (135.0)	1.4 (35.0)	6.0 (148.0)	0.38 - 0.39 (9.7 - 10.0)	0.03-0.20 (0.8-5.0)	PA66HS	PA66HS	Black	500
156-00025	T50RFT5	50.0 (225.0)	2.0 (45.0)	7.9 (200.0)	0.17 - 0.2 (4.5 - 5.0)	0.03-0.12 (0.7-3.0)	PA66HS	PA66HIRHS	Black	500

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

### Fir Tree Mount Cable Ties

#### 2-Piece Fir Tree Mount and Cable Tie Assemblies

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Max. Bundle Diameter in. (mm)	Length (L) in. (mm)	Mounting Hole Dia. in. (mm)	Panel Thickness in. (mm)	Material Cable Tie	Material Fir Tree	Color	Pkg. Qty.
156-00882	T50RFT 5.5SD	50.0 (225.0)	2.0 (45.0)	8.0 (203.2)	0.2 - 0.22 (5.0 - 5.7)	0.03-0.12 (0.7-4.5)	PA66HS	PA66HIRHS	Black	500
156-00457	T50RFT7HD	50.0 (225.0)	1.8 (50.0)	8.0 (200.0)	0.24 - 0.28 (6.2 - 7.2)	0.03-0.28 (0.8-7.0)	PA46	PA46	Brown	500
156-00329		50.0 (225.0)	1.8 (45.0)	8.0 (200.0)	0.24 - 0.28 (6.3 - 7.1)	0.03-0.28 (0.8-7.0)	PA66HS	PA66HIRHS	Black	500
150-31093	T50SFT6LG	50.0 (225.0)	1.4 (30.0)	6.0 (160.0)	0.25 - 0.28 (6.5 - 7.0)	0.03-0.24 (0.75-6.0)	PA66HS	PA66HIRHS	Black	500
150-31098	T50RFT6LG	50.0 (222.0)	2.0 (45.0)	8.0 (200.0)	0.25 - 0.28 (6.5 - 7.0)	0.03-0.24 (0.75-6.0)	PA46	PA46	Gray	500
150-31091		50.0 (225.0)	2.0 (45.0)	8.0 (202.0)	0.25 - 0.28 (6.5 - 7.0)	0.03-0.24 (0.75-6.0)	PA66HS	PA66HIRHS	Black	500
156-00157	T50RFT6	50.0 (225.0)	2.0 (45.0)	8.0 (202.0)	0.25 - 0.28 (6.4 - 7.1)	0.03-0.12 (0.75-3.0)	PA66HS	PA66HIRHS	Black	500
156-00156	T50SFT6	50.0 (225.0)	1.4 (35.0)	6.0 (160.0)	0.26 - 0.28 (6.5 - 7.0)	0.03-0.12 (0.75-3.0)	PA66HS	PA66HIRHS	Black	500
156-00056	T50SFT7	50.0 (225.0)	1.4 (35.0)	6.0 (160.0)	0.26 - 0.28 (6.5 - 7.0)	0.03-0.28 (0.8-7.0)	PA66HS	PA66HS	Black	500
111-85871	T50RFT7	50.0 (225.0)	2.0 (45.0)	7.9 (202.0)	0.26 - 0.28 (6.5 - 7.0)	0.03-0.28 (0.8-7.0)	PA66HS	PA66HS	Black	500
111-05350	T50IFT7	50.0 (225.0)	3.3 (85.0)	11.8 (305.0)	0.26 - 0.28 (6.5 - 7.0)	0.03-0.28 (0.8-7.0)	PA66HS	PA66HS	Black	500
156-00054	T50IFT6LG	50.0 (225.0)	3.3 (85.0)	12.0 (305.0)	0.26 - 0.28 (6.5 - 7.0)	0.03-0.24 (0.75-6.0)	PA66HS	PA66HIR	Black	500
156-00066	T50LFT6	50.0 (225.0)	4.3 (110.0)	15.0 (390.0)	0.26 - 0.28 (6.5 - 7.0)	0.03-0.12 (0.75-3.0)	PA66HS	PA66HIRHS	Black	500
156-00055	T50LFT7	50.0 (225.0)	4.3 (110.0)	15.0 (390.0)	0.26 - 0.28 (6.5 - 7.0)	0.03-0.28 (0.8-7.0)	PA66HS	PA66HS	Black	500
156-00282		50.0 (225.0)	3.4 (85.0)	15.0 (380.0)	0.26 - 0.28 (6.5 - 7.0)	0.03-0.28 (0.8-7.0)	PA66HS	PA66HS	Black	500
156-00376	T50RFT8	50.0 (225.0)	1.8 (48.0)	8.0 (202.0)	0.3 - 0.31 (7.7 - 8.0)	0.02-0.26 (0.8-6.0)	PA66HS	PA66HS	Black	500
156-00377	T50IFT8	50.0 (225.0)	3.4 (81.0)	12.0 (305.0)	0.3 - 0.31 (7.7 - 8.0)	0.03-0.24 (0.8-5.0)	PA66HS	PA66HS	Black	500
156-00378	T50LFT8	50.0 (225.0)	4.2 (105.0)	15.0 (380.0)	0.3 - 0.31 (7.7 - 8.0)	0.03-0.20 (0.8-5.0)	PA66HS	PA66HS	Black	500

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

# Bundling and Securing

## Self-Affixing Cable Ties

### Fir Tree Mount Cable Ties

#### 2-Piece Fir Tree Mount and Cable Tie Assemblies

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Max. Bundle Diameter in. (mm)	Length (L) in. (mm)	Mounting Hole Dia. in. (mm)	Panel Thickness in. (mm)	Material Cable Tie	Material Fir Tree	Color	Pkg. Qty.
156-00091	T50RFT10	50.0 (225.0)	1.8 (45.0)	8.0 (203.2)	0.38 - 0.39 (9.7 - 10.0)	0.03-0.20 (0.8-5.0)	PA66HS	PA66HS	Black	500
111-85810		50.0 (225.0)	1.8 (45.0)	8.0 (200.0)	0.38 - 0.39 (9.7 - 10.0)	0.03-0.20 (0.8-5.0)	PA66HS	PA66HS	Black	500
156-00092	T50IFT10	50.0 (225.0)	3.4 (81.0)	12.0 (305.0)	0.38 - 0.39 (9.7 - 10.0)	0.03-0.20 (0.8-5.0)	PA66HS	PA66HS	Black	500
156-00093	T50LFT10	50.0 (225.0)	4.3 (110.0)	15.0 (380.0)	0.38 - 0.39 (9.7 - 10.0)	0.03-0.20 (0.8-5.0)	PA66HS	PA66HS	Black	500
156-01336	PT2AFT6LG	51.7 (230.0)	1.4 (35.0)	5.7 (145.0)	0.25 - 0.28 (6.4 - 7.1)	0.03-0.24 (0.75-6.0)	PEEK	PA46	Beige, Gray	500
156-01555	PAT100R FT6LG	100.0 (445.0)	1.4 (35.0)	5.9 (149.9)	0.22 - 0.25 (5.6 - 6.4)	0.05-0.24 (1.25-6.0)	PAEK	PAEK	Beige	500
156-01513	PAT100L FT6LG	100.0 (445.0)	2.0 (50.8)	7.9 (200.7)	0.22 - 0.25 (5.6 - 6.4)	0.05-0.24 (1.25-6.0)	PAEK	PAEK	Beige	500
156-00068	WSSFT9A	120.0 (535.0)	2.3 (57.0)	9.0 (228.0)	0.34 - 0.36 (8.7 - 9.2)	0.04-0.26 (1.0-6.5)	PA66HIRHSUV	PA66HIRHSUV	Black	100
156-00072	WSSFT9B	120.0 (535.0)	2.3 (57.0)	9.0 (228.0)	0.34 - 0.36 (8.7 - 9.2)	0.04-0.62 (1.0-15.8)	PA66HS	PA66HIRHSUV	Black	100
156-00071	T120RFT9B	120.0 (535.0)	4.0 (100.0)	15.0 (380.0)	0.34 - 0.36 (8.7 - 9.2)	0.04-0.62 (1.0-15.8)	PA66HS	PA66HIRHSUV	Black	100
156-00067	T120RFT9A	120.0 (535.0)	4.0 (100.0)	15.0 (380.0)	0.34 - 0.36 (8.7 - 9.2)	0.04-0.26 (1.0-6.5)	PA66HS	PA66HIRHSUV	Black	100
156-00069	WSIFT9A	120.0 (535.0)	4.0 (102.0)	15.0 (387.0)	0.34 - 0.36 (8.7 - 9.2)	0.04-0.62 (1.0-6.5)	PA66HS	PA66HIRHSUV	Black	100
156-00070	WSRFT9A	120.0 (535.0)	4.1 (105.0)	15.0 (380.0)	0.34 - 0.36 (8.7 - 9.2)	0.04-0.62 (1.0-6.5)	PA66HS	PA66HIRHSUV	Black	100
156-00074	WSRFT9B	120.0 (535.0)	4.1 (105.0)	15.0 (380.0)	0.34 - 0.36 (8.7 - 9.2)	0.04-0.62 (1.0-15.8)	PA66HS	PA66HIRHSUV	Black	100

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

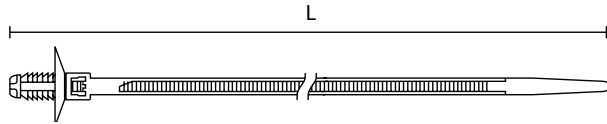
### Fir Tree Mount Cable Ties

#### 1-Piece Cable Ties with Fir Tree Mount with Disc

One-piece mounting ties offer a complete solution by both bundling and mounting wires, cables and tubes. The fir tree mount provides low insertion force with a high extraction force. Outside serrations on the cable tie leave a smooth interior surface that's gentler on sensitive wire insulation. The unique head design allows the cable tie to firmly hold bundles as small as .06" diameter. The disc offers added protection against debris.

#### Features and Benefits

- All-in-one bundling and fastening solution reduces costs and assembly time.
- Disc feature provides anti-rattle protection in high-vibration applications.



PART NO.	TYPE	Min. Mounting Hole Dia. in. (mm)	Max. Mounting Hole Dia. in. (mm)	Length (L) in. (mm)	Min. Tensile Strength lbs. (N)	Max. Bundle Diameter in. (mm)	Panel Thickness in. (mm)	Material	Color	Pkg. Qty.
157-00052	T50ROSFT6LGM	0.3 (6.5)	0.3 (7.2)	8.6 (220.0)	50.0 (225.0)	2.0 (50.0)	0.02 – 0.33 (0.6 – 8.5)	PA66HS	Black	500
157-00306	T50ROSFT6.5LG-E4	0.2 (6.1)	0.3 (6.9)	8.6 (218.1)	50.0 (225.0)	2.0 (50.0)	0.02 – 0.32 (0.6 – 8.3)	PA66HIRHS	Black	500
155-05800	T50SOSFT6E	0.3 (6.5)	0.3 (7.0)	6.0 (160.0)	50.0 (150.0)	1.4 (32.0)	0.03 – 0.12 (0.75 – 3.0)	PA66HIRHS	Black	1500
157-00050	T50SOSFT6LGM	0.3 (6.5)	0.3 (7.2)	6.5 (169.0)	50.0 (225.0)	1.4 (35.0)	0.02 – 0.33 (0.6 – 8.5)	PA66HS	Black	500
157-00376	T50SOSFT6.5-E4	0.2 (6.1)	0.3 (6.9)	6.3 (161.5)	50.0 (225.0)	1.4 (35.0)	0.02 – 0.17 (0.6 – 4.2)	PA66HS	Black	1000
157-00355	T50SOSFT6.5LG-E4	0.2 (6.1)	0.3 (6.9)	6.6 (167.9)	50.0 (225.0)	1.4 (35.0)	0.02 – 0.32 (0.6 – 8.3)	PA66HIRHS	Natural	4000
157-00296		0.2 (6.1)	0.3 (6.9)	6.6 (167.9)	50.0 (225.0)	1.4 (35.0)	0.02 – 0.32 (0.6 – 8.3)	PA66HIRHSUV	Black	4000
157-00373		0.2 (6.1)	0.3 (6.9)	6.6 (167.9)	50.0 (225.0)	1.4 (35.0)	0.02 – 0.32 (0.6 – 8.3)	PA66HIRHSUV	Black	500
157-00303		0.2 (6.1)	0.3 (6.9)	6.6 (168.0)	50.0 (225.0)	1.4 (35.0)	0.02 – 0.32 (0.6 – 8.3)	PA66HS	Gray	5000
157-00287	T50SOSFT6.5LG-E4X	0.3 (6.3)	0.3 (7.0)	6.5 (165.0)	50.0 (225.0)	1.4 (35.0)	0.03 – 0.28 (0.7 – 7.0)	PA66HS	Black	500
157-00359		0.3 (6.3)	0.3 (7.0)	6.5 (165.0)	50.0 (227.0)	1.4 (35.0)	0.03 – 0.28 (0.7 – 7.0)	PA66HS	Black	500
157-00302		0.3 (6.3)	0.3 (7.0)	6.5 (165.0)	50.0 (225.0)	1.4 (35.0)	0.03 – 0.28 (0.7 – 7.0)	PA66HIRHSUV	Black	4000
157-00115	T50SOSFT8E	0.3 (8.0)	0.3 (8.5)	6.4 (163.0)	50.0 (225.0)	1.4 (35.0)	0.02 – 0.24 (0.6 – 6.0)	PA46	Gray	1000
157-00072		0.3 (8.0)	0.3 (8.5)	6.4 (163.0)	50.0 (225.0)	1.4 (35.0)	0.02 – 0.24 (0.6 – 6.0)	PA66HS	Black	1000

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

# Bundling and Securing

## Self-Affixing Cable Ties

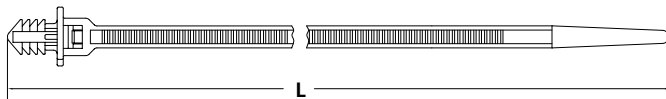
### Fir Tree Mount Cable Ties

#### 1-Piece Cable Ties with Fir Tree

One-piece mounting ties offer a complete solution by both bundling cable and at the same time providing a mounting solution. HellermannTyton's one-piece mounting ties offer the ideal combination of high specification materials and superior design to suit the mounting and bundling needs of complex applications. Fir Tree design grips to the inside of a hole. They can be used on sheet metal, wood, and cast iron. Type T50RTM25E has a longer fir tree for larger panel thicknesses.

#### Features and Benefits

- Friction tab inside of fir tree allows tie to sit in mount without falling out prior to installation.
- Disc feature provides anti-rattle protection in high-vibration applications.
- All-in-one bundling and mounting solution reduces costs.



PART NO.	TYPE	Min. Mounting Hole Dia. in. (mm)	Max. Mounting Hole Dia. in. (mm)	Length (L) in. (mm)	Min. Tensile Strength lbs. (N)	Max. Bundle Diameter in. (mm)	Panel Thickness in. (mm)	Material	Color	Pkg. Qty.
T50RTM250HSM4	T50RTM25	0.3 (6.4)	0.3 (7.1)	8.0 (203.2)	50.0 (225.0)	2.0 (50.0)	0.05 – 0.28 (1.32 – 7.0)	PA66HS	Black	1000
T50RTM250HSC2		0.3 (6.2)	0.3 (7.0)	8.0 (213.1)	50.0 (222.0)	2.0 (50.8)	0.05 – 0.28 (1.32 – 7.0)	PA66HS	Black	100
157-00073	T50RTM25E	0.3 (6.3)	0.3 (7.0)	8.0 (209.6)	50.0 (222.0)	2.0 (50.0)	0.09 – 0.50 (2.3 – 13.9)	PA66HIRHS	Black	1000
T50RTM25E8HM4		0.3 (6.4)	0.3 (7.1)	8.0 (203.2)	50.0 (222.0)	2.0 (50.8)	0.09 – 0.50 (2.3 – 13.9)	PA66HIRHS	Gray	1000
T50RTM25E0HSM4		0.3 (6.3)	0.3 (7.0)	8.0 (213.8)	50.0 (222.0)	2.0 (50.8)	0.09 – 0.50 (2.3 – 13.9)	PA66HS	Black	1000

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.



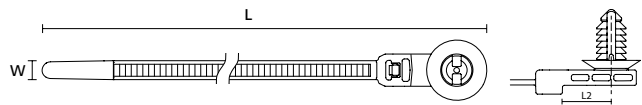
### Fir Tree Mount Cable Ties

#### Offset Fir Tree Cable Ties

Offset cable ties route and position bundles away from a mounting hole. Rigid offset bar eliminates potential bending of wire or cables once installed. Multiple offset distances and fir tree sizes cover the majority of industry offset applications. The tie strap's outside serration design provides a smooth surface to protect soft bundles. HellermannTyton's one-piece mounting ties offer a complete solution by both bundling and mounting. Their ideal combination of high-specification materials and superior design suit the needs of complex applications.

#### Features and Benefits

- All-in-one bundling and fastening solution reduces costs and assembly time.
- Variety of fir tree diameters and offset lengths address most offset applications.
- High-spec materials and superior design deliver excellent performance and value.



PART NO.	TYPE	Mounting Hole Dia. in. (mm)	Panel Thickness in. (mm)	Length (L) in. (mm)	Length (L2) in. (mm)	Min. Tensile Strength lbs. (N)	Max. Bundle Diameter in. (mm)	Material	Color	Pkg. Qty.
157-00145	T50ROSFT6SO12.5A	0.2 - 0.3 (6.1 - 7.0)	0.02 - 0.26 (0.60 - 6.65)	8.5 (215.5)	0.5 (12.5)	50.0 (222.0)	2.0 (50.0)	PA66HIRHS	Black	4000
157-00130		0.2 - 0.3 (6.1 - 7.0)	0.02 - 0.26 (0.60 - 6.65)	8.5 (215.5)	0.5 (12.5)	50.0 (222.0)	2.0 (50.0)	PA66HIRHS	Gray	4000
157-00165	T50ROSFT6SO12.5R	0.2 - 0.3 (6.1 - 7.0)	0.02 - 0.32 (0.60 - 8.25)	8.8 (223.1)	0.5 (12.5)	50.0 (222.0)	2.0 (50.0)	PA66HIRHS	Black	500
157-00158	T50ROSFT6SO25A	0.2 - 0.3 (6.1 - 7.0)	0.02 - 0.26 (0.60 - 6.65)	9.1 (230.0)	1.0 (25.0)	50.0 (222.0)	2.0 (50.0)	PA46	Brown	500
157-00150		0.2 - 0.3 (6.1 - 7.0)	0.02 - 0.26 (0.60 - 6.65)	9.1 (230.0)	1.0 (25.0)	50.0 (222.0)	2.0 (50.0)	PA66HIRHS	Black	500
157-00119		0.2 - 0.3 (6.1 - 7.0)	0.02 - 0.26 (0.60 - 6.65)	9.1 (230.0)	1.0 (25.0)	50.0 (222.0)	2.0 (50.0)	PA66HIRHS	Gray	3000
157-00164	T50ROSFT6SO25R	0.2 - 0.3 (6.1 - 7.0)	0.02 - 0.32 (0.60 - 8.25)	9.4 (237.7)	1.0 (25.0)	50.0 (222.0)	2.0 (50.0)	PA66HIRHS	Black	500
157-00120	T50ROSFT8SO25A	0.3 - 0.3 (7.6 - 8.4)	0.02 - 0.26 (0.60 - 6.65)	9.1 (230.0)	1.0 (25.0)	50.0 (222.0)	2.0 (50.0)	PA66HIRHS	Gray	500
157-00216	T50ROSFT612.5SO	0.2 - 0.3 (6.1 - 6.9)	0.02 - 0.24 (0.60 - 6.0)	9.2 (234.2)	0.5 (12.5)	50.0 (222.0)	2.0 (50.0)	PA66HIRHS	Black	3000
157-00195	T50ROSFT625SO	0.2 - 0.3 (6.1 - 6.9)	0.02 - 0.32 (0.60 - 8.25)	9.7 (247.2)	1.0 (25.0)	50.0 (222.0)	2.0 (50.0)	PA66HIRHS	Black	500
157-00217	T50ROSFT812.5SO	0.3 - 0.3 (7.6 - 8.4)	0.02 - 0.20 (0.60 - 5.0)	9.1 (222.9)	0.5 (12.5)	50.0 (222.0)	2.0 (50.0)	PA66HIRHS	Black	1000
157-00196	T50ROSFT825SO	0.3 - 0.3 (7.6 - 8.4)	0.02 - 0.24 (0.60 - 6.0)	9.6 (245.1)	1.0 (25.0)	50.0 (222.0)	2.0 (50.0)	PA66HIRHS	Black	500
157-00118	T50ROSFTM6SO12.5A	0.2 (M6)	0.02 - 0.26 (0.60 - 6.65)	8.5 (215.5)	0.5 (12.5)	50.0 (222.0)	2.0 (50.0)	PA66HIRHS	Gray	500
157-00131	T50ROSFTM6SO12.5B	0.2 (M6)	0.02 - 0.26 (0.60 - 6.65)	8.5 (215.5)	0.5 (12.5)	50.0 (222.0)	2.0 (50.0)	PA66HIRHS	Black	500

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

# Bundling and Securing

## Self-Affixing Cable Ties

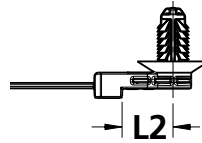
### Fir Tree Mount Cable Ties

#### Offset Oval Fir Tree Cable Ties

One-piece offset cable tie and mount offers a simple bundling and mounting solution. The innovative design of this fir tree establishes a 360-degree interface with the panel hole, ensuring a more secure fit. The oval shape won't rotate once inserted, ensuring proper routing of wires and hoses. Offset feature positions bundles away from a mounting hole. The disc feature prevents rattling in high-vibration applications and protects against debris ingress.

#### Features and Benefits

- All-in-one bundling and fastening solution reduces costs and assembly time.
- Anti-rotational oval fastener forces bundle to travel in intended direction.
- Offset cable ties route and position bundles away from a mounting hole to protect them from rubbing, heat or obstructions.



PART NO.	TYPE	Mounting Hole Dia. in. (mm)	Panel Thickness in. (mm)	Length (L) in. (mm)	Length (L2) in. (mm)	Min. Tensile Strength lbs. (N)	Max. Bundle Diameter in. (mm)	Material	Color	Pkg. Qty.
157-00224	T50ROSFT OVAL12.5A	0.2 x 0.48; 0.25 x 0.50; 0.25 x 0.51; 0.27 x 0.47 (6.2 x 12.2), (6.5 x 12.5), (6.5 x 13.0), (7.0 x 12.0)	0.02 – 0.27 (0.6 – 6.75)	8.5 (216.8)	0.5 (12.5)	50.0 (225.0)	2.0 (50.0)	PA66HIRHS	Black	500
157-00225		0.2 x 0.48; 0.25 x 0.50; 0.25 x 0.51; 0.27 x 0.47 (6.2 x 12.2), (6.5 x 12.5), (6.5 x 13.0), (7.0 x 12.0)	0.02 – 0.27 (0.6 – 6.75)	8.5 (216.8)	0.5 (12.5)	50.0 (225.0)	2.0 (50.0)	PA66HIRHS	Gray	500
157-00249	T50ROSFT OVAL12.5B	0.2 x 0.48; 0.25 x 0.50; 0.25 x 0.51; 0.27 x 0.47 (6.2 x 12.2), (6.5 x 12.5), (6.5 x 13.0), (7.0 x 12.0)	0.02 – 0.27 (0.6 – 6.75)	8.5 (216.8)	0.5 (12.5)	50.0 (225.0)	2.0 (50.0)	PA66HIRHS	Black	1000
157-00221	T50ROSFT OVAL25R	0.2 x 0.48; 0.25 x 0.50; 0.25 x 0.51; 0.27 x 0.47 (6.2 x 12.2), (6.5 x 12.5), (6.5 x 13.0), (7.0 x 12.0)	0.02 – 0.27 (0.6 – 6.75)	9.3 (237.4)	1.0 (25.0)	50.0 (225.0)	2.0 (50.0)	PA66HIRHS	Black	500

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

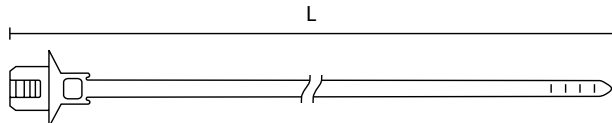
### Fir Tree Mount Cable Ties

#### Oval Fir Tree Cable Ties

One-piece cable tie and mount offers a simple bundling and mounting solution. The innovative design of this fir tree establishes a 360-degree interface with the panel hole, ensuring a more secure fit. The oval shape won't rotate once inserted, ensuring proper routing of wires and hoses. The disc feature prevents rattling in high-vibration applications and protects against debris ingress.

#### Features and Benefits

- All-in-one bundling and fastening solution reduces costs and assembly time.
- Anti-rotational oval fastener forces bundle to travel in intended direction.
- High-spec materials and superior design deliver excellent performance and value.



PART NO.	TYPE	Min. Mounting Hole Dia. in. (mm)	Max. Mounting Hole Dia. in. (mm)	Panel Thickness in. (mm)	Length (L) in. (mm)	Min. Tensile Strength lbs. (N)	Max. Bundle Diameter in. (mm)	Material	Color	Pkg. Qty.
157-00288	T50ROSFTOVAL25A	0.2 (6.2)	0.5 (13.0)	0.02 – 0.27 (0.6 – 6.75)	9.0 (229.3)	50.0 (225.0)	2.0 (50.0)	PA46	Brown	500
157-00222		0.2 (6.2)	0.5 (13.0)	0.02 – 0.27 (0.6 – 6.75)	9.0 (229.3)	50.0 (225.0)	2.0 (50.0)	PA66HIRHS	Black	500
157-00205		0.2 (6.2)	0.5 (13.0)	0.02 – 0.27 (0.6 – 6.75)	9.0 (229.3)	50.0 (225.0)	2.0 (50.0)	PA66HIRHS	Gray	500
157-00332	T50ROSFTOVAL25B	0.2 (6.2)	0.5 (13.0)	0.02 – 0.27 (0.6 – 6.75)	9.0 (229.3)	50.0 (225.0)	2.0 (50.0)	PA46	Black	1000
157-00247		0.2 (6.2)	0.5 (13.0)	0.02 – 0.27 (0.6 – 6.75)	9.0 (229.3)	50.0 (225.0)	2.0 (50.0)	PA66HIRHS	Black	1000
157-00323	T50ROSFTOVALIL25A	0.2 (6.2)	0.5 (13.0)	0.02 – 0.27 (0.6 – 6.75)	9.0 (232.3)	50.0 (225.0)	2.0 (50.0)	PA66HIRHS	Black	1000
157-00333	T50ROSFTOVALIL25B	0.2 (6.2)	0.5 (13.0)	0.02 – 0.27 (0.6 – 6.75)	9.0 (232.3)	50.0 (225.0)	2.0 (50.0)	PA66HIRHS	Black	2000
157-00232	T50ROSFTOVALR	0.2 (6.2)	0.5 (13.0)	0.02 – 0.24 (0.6 – 6.0)	8.6 (219.3)	50.0 (225.0)	2.0 (50.0)	PA66HIRHS	Black	500
157-00391	T50ROSFTOVALU	0.2 (6.2)	0.5 (12.2)	0.02 – 0.24 (0.6 – 6.0)	8.9 (225.0)	50.0 (222.0)	2.0 (50.0)	PA66HIRHS	Black	3000
157-00153		0.2 (6.2)	0.5 (12.2)	0.02 – 0.24 (0.6 – 6.0)	8.9 (225.0)	50.0 (222.0)	2.0 (50.0)	PA66HIRHS	Gray	500
157-00254		0.2 (6.2)	0.5 (12.2)	0.02 – 0.24 (0.6 – 6.0)	8.9 (225.0)	50.0 (222.0)	2.0 (50.0)	PA66HS	Black	500
157-00157		0.2 (6.2)	0.5 (12.2)	0.02 – 0.27 (0.6 – 6.75)	8.6 (219.0)	50.0 (225.0)	2.0 (50.0)	PA46	Brown	500
157-00142		0.2 (6.2)	0.5 (13.0)	0.02 – 0.27 (0.6 – 6.75)	8.6 (219.0)	50.0 (225.0)	2.0 (50.0)	PA66HIRHS	Black	3000

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

# Bundling and Securing

## Self-Affixing Cable Ties

### Fir Tree Mount Cable Ties

#### Oval Fir Tree Cable Ties

PART NO.	TYPE	Min. Mounting Hole Dia. in. (mm)	Max. Mounting Hole Dia. in. (mm)	Panel Thickness in. (mm)	Length (L) in. (mm)	Min. Tensile Strength lbs. (N)	Max. Bundle Diameter in. (mm)	Material	Color	Pkg. Qty.
157-00268	T50ROSFTSOVAL	0.2 (6.2)	0.5 (13.0)	0.02 – 0.12 (0.6 – 3.0)	8.5 (215.0)	50.0 (225.0)	2.0 (50.0)	PA66HIRHS	Black	500
157-00069	T50SOS2DOP62X122-E	0.2 (6.2)	0.5 (12.2)	0.02 – 0.24 (0.6 – 6.0)	6.5 (164.0)	45.0 (200.0)	1.4 (35.0)	PA46	Gray	1000
157-00014		0.2 (6.2)	0.5 (12.2)	0.02 – 0.24 (0.6 – 6.0)	6.5 (164.0)	50.0 (225.0)	1.4 (35.0)	PA66HS	Black	500
157-00184	T50SOS3DOP65X130-E	0.3 (6.5)	0.5 (13.0)	0.03 – 0.20 (0.7 – 5.0)	6.5 (165.0)	50.0 (180.0)	1.4 (35.0)	PA66HS	Black	500
157-00053	T50SOSFT7X12U	0.3 (7.0)	0.5 (12.0)	0.02 – 0.16 (0.6 – 4.0)	6.5 (165.0)	50.0 (225.0)	1.4 (35.0)	PA66HS	Black	500
157-00253	T50SOSFTOVALU	0.2 (6.2)	0.5 (13.0)	0.02 – 0.27 (0.6 – 6.75)	6.6 (168.2)	50.0 (225.0)	1.4 (35.0)	PA66HS	Black	500
157-00143		0.2 (6.2)	0.5 (13.0)	0.02 – 0.27 (0.6 – 6.75)	6.6 (168.2)	50.0 (225.0)	1.4 (35.0)	PA66HS	Black	3000
157-00266		0.2 (6.2)	0.5 (13.0)	0.02 – 0.27 (0.6 – 6.75)	6.6 (168.2)	50.0 (225.0)	1.4 (35.0)	PA66HS	Gray	500
157-00154		0.2 (6.2)	0.5 (13.0)	0.02 – 0.27 (0.6 – 6.75)	6.6 (168.2)	50.0 (225.0)	1.4 (35.0)	PA66HS	Gray	1000

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

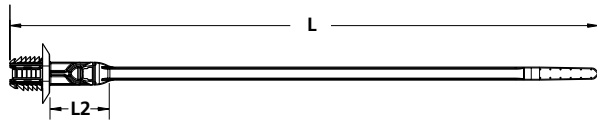
### Fir Tree Mount Cable Ties

#### Stand-Off Oval Fir Tree Cable Ties

One-piece standoff cable tie and mount offers a simple bundling and mounting solution. The innovative design of this fir tree establishes a 360-degree interface with the panel hole, ensuring a more secure fit. The oval shape won't rotate once inserted, ensuring proper routing of wires and hoses. Standoff feature positions bundles above a mounting hole. The disc feature prevents rattling in high-vibration applications and protects against debris ingress.

#### Features and Benefits

- All-in-one bundling and fastening solution reduces costs and assembly time.
- Anti-rotational oval fastener forces bundle to travel in intended direction.
- Stand-off cable ties route and position bundles above a mounting hole to protect them from rubbing, heat or obstructions.



PART NO.	TYPE	Mounting Hole Dia. in. (mm)	Panel Thickness in. (mm)	Length (L) in. (mm)	Length (L2) in. (mm)	Min. Tensile Strength lbs. (N)	Max. Bundle Diameter in. (mm)	Material	Color	Pkg. Qty.
157-00218	T50ROSFT OVAL 12.5SO	0.2 x 0.48; 0.25 x 0.50; 0.25 x 0.51; 0.27 x 0.47 (6.2 x 12.2), (6.5 x 12.5), (6.5 x 13.0), (7.0 x 12.0)	0.02 – 0.27 (0.6 – 6.75)	9.1 (231.3)	0.5 (12.5)	50.0 (220.0)	2.0 (50.0)	PA66HIRHS	Black	1000
157-00219	T50ROSFT OVAL 25SO	0.2 x 0.48; 0.25 x 0.50; 0.25 x 0.51; 0.27 x 0.47 (6.2 x 12.2), (6.5 x 12.5), (6.5 x 13.0), (7.0 x 12.0)	0.02 – 0.27 (0.6 – 6.75)	9.6 (243.8)	1.0 (25.0)	50.0 (220.0)	2.0 (50.0)	PA66HIRHS	Black	500
157-00379	T50ROSFT OVALIL 125SO	0.2 x 0.48; 0.25 x 0.50; 0.25 x 0.51; 0.27 x 0.47 (6.2 x 12.2), (6.5 x 12.5), (6.5 x 13.0), (7.0 x 12.0)	0.02 - 0.27 (0.6 - 6.75)	6.5 (164.0)	0.5 (12.5)	50.0 (225.0)	1.4 (35.0)	PA66HIRHSUV	Black	500

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

# Bundling and Securing

## Self-Affixing Cable Ties

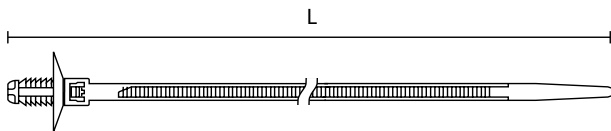
### Fir Tree Mount Cable Ties

#### Releasable Cable Tie with Fir Tree Mount

The releasable cable tie with fir tree mount offers a complete bundling and fastening solution. The extended pawl allows the user to release the tie for bundle maintenance. HellermannTyton's one-piece mounting ties deliver the ideal combination of high-specification materials and superior design.

#### Features and Benefits

- An all-in-one bundling and mounting solution that reduces parts and costs.
- High-specification materials and superior design suit the bundling and fastening requirements of complex applications.
- Release feature allows maintenance or changeouts as needed.



PART NO.	TYPE	Min. Mounting Hole Dia. in. (mm)	Max. Mounting Hole Dia. in. (mm)	Length (L) in. (mm)	Min. Tensile Strength lbs. (N)	Max. Bundle Diameter in. (mm)	Panel Thickness in. (mm)	Material	Color	Pkg. Qty.
150-55500	REL30SDP6	0.3 (6.3)	0.3 (7.1)	6.7 (170.0)	30.0 (135.0)	1.2 (31.0)	0.12 – 0.28 (3.0 – 7.0)	PA66	Black	500

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

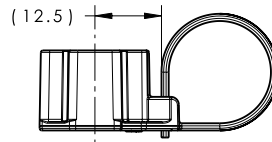
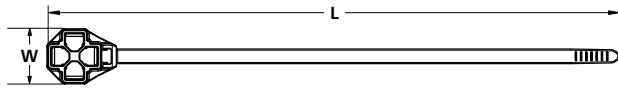
### Stud Mount Cable Ties

#### Stud Mount Ties

Stud Mount Ties offer outstanding stud retention. With their low insertion force and high extraction performance, HellermannTyton mounting ties offer the ideal combination of high-grade materials and superior design to suit the mounting and bundling needs of complex applications. Available in standard and high-heat material options.

#### Features and Benefits

- Covers top of stud for protection from stud end.
- Four-pawl, three-tooth design delivers outstanding stud retention to keep bundles secure.
- PA46 material option allows use in high-heat applications.



PART NO.	TYPE	Stud Dia. in.	Stud Dia. (mm)	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
157-00233	T50ROSSB5-6U	0.20, 0.24	(5.0, 6.0)	50.0 (225.0)	8.6 (218.5)	2.0 (50.0)	0.6 (14.2)	PA66HIRHS	Black	1500
157-00290	T80ROSSB8U	0.31	(8.0)	80.0 (335.0)	8.3 (212.0)	2.0 (50.0)	0.7 (17.8)	PA66HIRHSUV	Black	3000
157-00293		0.31	(8.0)	80.0 (355.0)	8.3 (212.0)	2.0 (50.0)	0.7 (17.8)	PA46	Brown	3000
157-00291	T80ROSSB10U	0.39	(10.0)	80.0 (335.0)	8.5 (215.0)	2.0 (50.0)	0.2 (5.5)	PA66HIRHSUV	Black	2000
157-00294		0.39	(10.0)	80.0 (335.0)	8.5 (215.0)	2.0 (50.0)	0.2 (5.5)	PA46	Brown	2000
157-00292	T80ROSSB12U	0.47	(12.0)	80.0 (355.0)	8.6 (218.0)	2.0 (50.0)	0.9 (23.8)	PA66HIRHSUV	Black	3000
157-00295		0.47	(12.0)	80.0 (355.0)	8.6 (218.0)	2.0 (50.0)	0.9 (23.8)	PA46	Brown	3000

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO9, EVO9HT, MK9P.

# Bundling and Securing

## Self-Affixing Cable Ties

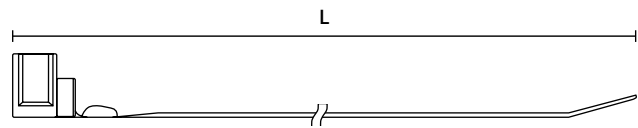
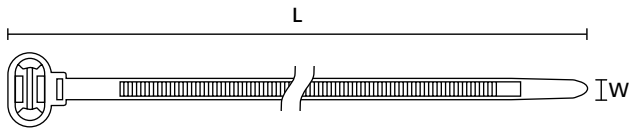
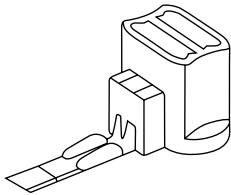
### Stud Mount Cable Ties

#### Oval Shaped Variable Stud Mount Ties

Oval Shaped Stud Mount's special design allows for a .20" (5.5 mm) lateral adjustment, allowing for any misalignment of the stud or incorrect position of the tie on the cables. The mount allows it to be installed onto a weld stud without the use of any tools.

#### Features and Benefits

- Head allows for a .2" lateral adjustment on stud during installation.
- Quick and easy installation ideal for manufacturing environment.



PART NO.	TYPE	Stud Dia. in.	Stud Dia. (mm)	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
155-46302	T50SOSSB6HE	0.24	(6.0)	50.0 (170.0)	6.0 (160.0)	1.4 (35.0)	0.2 (4.7)	PA66HS	Black	500
157-00151	T50SOSSB5-High-E-C-CC	0.20, 0.24	(5.0), M6	225.0 (225.0)	6.6 (167.0)	1.4 (35.0)	0.2 (5.0)	PA66HS	Gray	5000
157-00105		0.20	(5.0)	50.0 (225.0)	6.6 (167.0)	1.4 (35.0)	0.2 (5.0)	PA66HS	Black	3000
157-00106	T50SOSSB5-High-E-O-US	0.20	(5.0)	50.0 (225.0)	6.6 (167.0)	1.4 (35.0)	0.2 (5.0)	PA66HS	Black	3000

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.



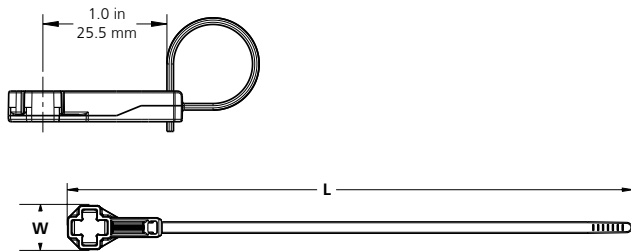
### Stud Mount Cable Ties

#### Offset Stud Mount Ties

This mount features an offset design, which positions bundles away from obstructions, heat or sources of abrasion. With their low insertion force and high extraction performance, HellermannTyton mounting ties offer the ideal combination of high-grade materials and superior design to suit the mounting and bundling needs of complex applications. Available in standard and high-heat material options.

#### Features and Benefits

- Offset design positions bundles away from obstructions, heat or sources of abrasion.
- Four-pawl, three-tooth design delivers outstanding stud retention to keep bundles secure.
- PA46 material option allows use in high-heat applications.



PART NO.	TYPE	Stud Dia. in.	Stud Dia. (mm)	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
157-00325	T50ROSM6SMS025	0.20, 0.24	(5.0, 6.0)	50.0 (225.0)	8.8 (224.0)	2.0 (50.0)	0.6 (14.2)	PA66HIRHSUV	Black	2000
157-00326		0.20, 0.24	(5.0, 6.0)	50.0 (223.0)	8.8 (224.0)	2.0 (50.0)	0.6 (14.2)	PA46	Brown	2000
157-00327	T50ROSM8SMS025	0.31	(8.0)	50.0 (223.0)	8.9 (226.0)	2.0 (50.0)	0.7 (17.8)	PA66HIRHSUV	Black	3000
157-00328		0.31	(8.0)	50.0 (223.0)	8.9 (226.1)	2.0 (50.0)	0.7 (17.8)	PA46	Brown	3000

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

# Bundling and Securing

## Self-Affixing Cable Ties

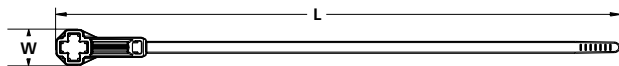
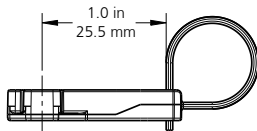
### Stud Mount Cable Ties

#### Offset Low-Profile Stud Mount Ties

This mount's offset design positions bundles away from obstructions, heat or sources of abrasion. It features a low-profile head, allowing multiple tie mounts to be stacked on a single bolt and providing space savings in tight areas. With their low insertion force and high extraction performance, HellermannTyton mounting ties offer the ideal combination of high-grade materials and superior design to suit the mounting and bundling needs of complex applications. Available in standard and high-heat material options.

#### Features and Benefits

- Offset design positions bundles away from obstructions, heat or sources of abrasion.
- Low profile head allows mounts to stack, providing more mounting versatility from a single stud.
- Four-pawl, three-tooth design delivers outstanding stud retention to keep bundles secure.
- PA46 material option allows use in high-heat applications..



PART NO.	TYPE	Stud Dia. in.	Stud Dia. (mm)	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
157-00335	T50ROSLPM6SMS025	0.20, 0.24	(5.0, 6.0)	50.0 (223.0)	8.8 (224.0)	2.0 (50.0)	0.6 (4.7)	PA66HIRHSUV	Black	3000
157-00338		0.20, 0.24	(5.0, 6.0)	50.0 (223.0)	8.8 (224.0)	2.0 (50.0)	0.6 (4.7)	PA46	Brown	3000
157-00362	T50ROSLPM8SMS025	0.31	(8.0)	50.0 (223.0)	8.9 (226.1)	2.0 (50.0)	0.7 (17.8)	PA66HIRHSUV	Black	3000
157-00361		0.31	(8.0)	50.0 (223.0)	8.9 (226.1)	2.0 (50.0)	0.7 (17.8)	PA46	Brown	3000

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

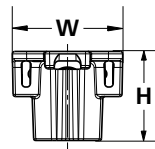
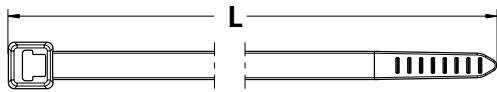
### Stud Mount Cable Ties

#### Two-Piece Stud Mount Ties

Unique, two-piece design allows routing to be above, parallel or perpendicular to stud. This also enables up to three separate bundles to be fastened to the same stud. With their low insertion force and high extraction performance, HellermannTyton mounting ties offer the ideal combination of high-grade materials and superior design to suit the mounting and bundling needs of complex applications. Available in standard and high-heat material options.

#### Features and Benefits

- Versatile design allows cable routing above, perpendicular or parallel to stud.
- Can mount up to three bundles simultaneously, making efficient use of a single mounting point.
- Four-pawl, three-tooth design delivers outstanding stud retention to keep bundles secure.
- PA46 material option allows use in high-heat applications.



PART NO.	TYPE	Stud Dia. in.	Stud Dia. (mm)	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material Cable Tie	Material Stud Mount	Color	Pkg. Qty.
156-01547	T50R0SB55-6U-SET	0.20, 0.24	(5.0, 6.0)	50.0 (223.0)	8.0 (202.0)	2.0 (50.0)	0.9 (23.3)	PA66HS	PA66HIRHS	Black	3000
156-01668	T50R1SB5-6USET	0.20, 0.24	(5.0, 6.0)	50.0 (223.0)	8.0 (202.0)	2.0 (50.0)	0.9 (23.3)	PA46	PA46	Gray, Brown	3000
156-02232	PAT100LSB55-6U2SET	0.20, 0.24	(5.0, 6.0)	50.0 (223.0)	8.0 (202.0)	2.0 (50.0)	0.9 (23.3)	PPS	PAEK	Silver, Beige	3000

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

# Bundling and Securing

## Self-Affixing Cable Ties

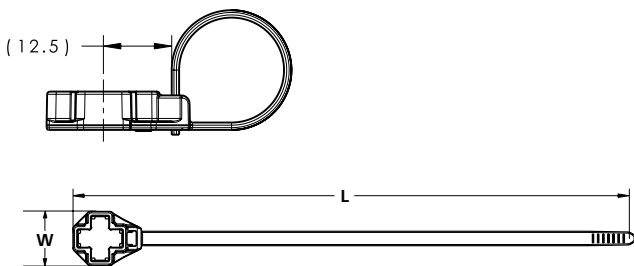
### Stud Mount Cable Ties

#### Low-Profile Stud Mount Ties

Mount features a low-profile head, allowing multiple tie mounts to be stacked on a single bolt and providing space savings in tight areas. With their low insertion force and high extraction performance, HellermannTyton mounting ties offer the ideal combination of high-grade materials and superior design to suit the mounting and bundling needs of complex applications. Available in standard and high-heat material options.

#### Features and Benefits

- Low-profile head allows mounts to stack, providing more mounting versatility from a single stud.
- Four-pawl, three-tooth design delivers outstanding stud retention to keep bundles secure.
- PA46 material option allows use in high-heat applications.



PART NO.	TYPE	Stud Dia. in.	Stud Dia. (mm)	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
157-00340	T80ROSLPSB8U	0.31	(8.0)	80.0 (355.0)	8.3 (212.0)	2.0 (50.0)	0.7 (17.8)	PA66HIRHSUV	Black	3000
157-00341		0.31	(8.0)	80.0 (355.0)	8.3 (212.0)	2.0 (50.0)	0.7 (17.8)	PA46	Brown	3000
157-00342	T80ROSLPSB10U	0.39	(10.0)	80.0 (355.0)	8.5 (215.0)	2.0 (50.0)	0.2 (5.5)	PA66HIRHSUV	Black	3500
157-00343		0.39	(10.0)	80.0 (355.0)	8.5 (215.0)	2.0 (50.0)	0.2 (5.5)	PA46	Brown	3500
157-00344	T80ROSLPSB12U	0.47	(12.0)	80.0 (355.0)	8.6 (218.0)	2.0 (50.0)	0.9 (23.8)	PA66HIRHSUV	Black	3000
157-00345		0.47	(12.0)	80.0 (355.0)	8.6 (218.0)	2.0 (50.0)	0.9 (23.8)	PA46	Brown	3000

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

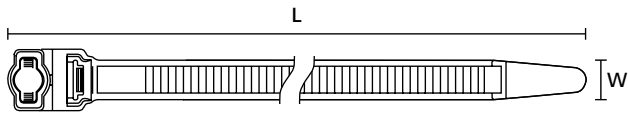
### Stud Mount Cable Ties

#### Wide Strap Heavy Duty Stud Mount Cable Ties

The Wide Strap Stud Mount 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. Available in various stud mount sizes, the wide strap tie utilizes a strong hinge between the stud mount and strap head to provide superior holding ability on a threaded stud.

#### Features and Benefits

- Mount provides low insertion and high extraction forces which makes for a strong and easy installation.
- Tie utilizes a strong hinge between the stud mount and strap head to provide superior holding ability.
- Clamping rails increase grip on round bundles.
- Thinner strap provides increased flexibility for improved ergonomics.



PART NO.	TYPE	Stud Dia. in. (mm)	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
157-00281	WSS6MM	1/4 (M6)	120.0 (534.0)	9.7 (246.4)	2.2 (57.1)	0.5 (12.7)	PA66HIRHSUV	Black	300
157-00282	WSI6MM	1/4 (M6)	120.0 (534.0)	12.7 (322.6)	3.2 (82.5)	0.5 (12.7)	PA66HIRHSUV	Black	300
157-00402	WSR250	1/4 (M6)	120.0 (534.0)	15.7 (398.8)	4.1 (104.1)	0.5 (12.7)	PA66HIRHSUV	Black	300
157-00283	WSR6MM	1/4 (M6)	120.0 (534.0)	15.7 (398.8)	4.1 (104.1)	0.5 (12.7)	PA66HIRHSUV	Black	300
157-00400	WSS250	1/4 (M6)	120.0 (534.0)	9.7 (246.4)	2.2 (57.1)	0.5 (12.7)	PA66HIRHSUV	Black	300
157-00401	WSI250	1/4 (M6)	120.0 (534.0)	12.7 (322.6)	3.2 (82.5)	0.5 (12.7)	PA66HIRHSUV	Black	300
157-00403	WSS380	3/8 (M10)	120.0 (534.0)	9.7 (246.4)	2.2 (57.1)	0.5 (12.7)	PA66HIRHSUV	Black	300
157-00404	WSI380	3/8 (M10)	120.0 (534.0)	12.7 (322.6)	3.2 (82.5)	0.5 (12.7)	PA66HIRHSUV	Black	300
157-00405	WSR380	3/8 (M10)	120.0 (534.0)	15.7 (398.8)	4.1 (104.1)	0.5 (12.7)	PA66HIRHSUV	Black	300
157-00034	WSS8MM	5/16 (M8)	120.0 (534.0)	9.7 (246.4)	2.2 (57.1)	0.5 (12.7)	PA66HIRHSUV	Black	300

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Installation tools: EVO9, EVO9HT, MK9P.

# Bundling and Securing

## Self-Affixing Cable Ties

### Stud Mount Cable Ties

#### Wide Strap Heavy Duty Stud Mount Cable Ties

PART NO.	TYPE	Stud Dia. in. (mm)	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
157-00035	WSI8MM	5/16 (M8)	120.0 (534.0)	12.7 (322.6)	3.2 (82.5)	0.5 (12.7)	PA66HIRHSUV	Black	300
157-00036	WSR8MM	5/16 (M8)	120.0 (534.0)	15.7 (398.8)	4.1 (104.1)	0.5 (12.7)	PA66HIRHSUV	Black	300
157-00284	WSS10MM	7/16 (M10)	120.0 (534.0)	9.7 (246.4)	2.2 (57.1)	0.5 (12.7)	PA66HIRHSUV	Black	300
157-00285	WSI10MM	7/16 (M10)	120.0 (534.0)	12.7 (322.6)	3.2 (82.5)	0.5 (12.7)	PA66HIRHSUV	Black	300
157-00286	WSR10MM	7/16 (M10)	120.0 (534.0)	15.7 (398.8)	4.1 (104.1)	0.5 (12.7)	PA66HIRHSUV	Black	300

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO9, EVO9HT, MK9P.

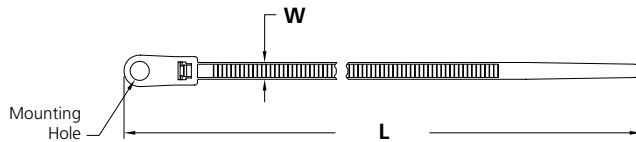
### Screw Mount Cable Ties

#### Screw Mount Ties

One-piece Screw Mount Cable Ties fasten with a screw or bolt to provide secure routing of cable bundles. Multiple configurations are available to cover a range of bundle sizes and tensile strengths.

#### Features and Benefits

- Screw mount style creates low insertion and high extraction force.
- Choose from several tensile strengths and lengths to accommodate a range of applications.



PART NO.	TYPE	Mounting Screw Type	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width in. (mm)	Material	Color	Pkg. Qty.
T18MR0C2*	T18MR	#4 (M2.5)	18.0 (80.0)	4.3 (110.0)	0.8 (20.0)	0.1 (2.5)	PA66HS	Black	100
T18MR0M4*		#4 (M2.5)	18.0 (80.0)	4.3 (110.0)	0.8 (20.0)	0.1 (2.5)	PA66	Black	1000
T18MR9C2*		#4 (M2.5)	18.0 (80.0)	4.3 (110.0)	0.8 (20.0)	0.1 (2.5)	PA66	Natural	100
T18MR9M4*		#4 (M2.5)	18.0 (80.0)	4.3 (110.0)	0.8 (20.0)	0.1 (2.5)	PA66	Natural	1000
T30MR0M4*	T30MR	#8 (M4)	30.0 (135.0)	6.3 (160.0)	1.3 (32.0)	0.1 (3.5)	PA66	Black	1000
T30MR9C2*		#8 (M4)	30.0 (135.0)	6.3 (160.0)	1.3 (32.0)	0.1 (3.5)	PA66	Natural	100
T30MR9M4*		#8 (M4)	30.0 (135.0)	6.3 (160.0)	1.3 (32.0)	0.1 (3.5)	PA66	Natural	1000
T30MR0C2*		#8 (M4)	30.0 (135.0)	6.3 (160.0)	1.3 (32.0)	0.1 (3.5)	PA66	Black	100
T50MI0C2	T50MI	#10 (M5)	50.0 (225.0)	12.4 (315.0)	3.4 (85.0)	0.2 (4.7)	PA66	Black	100
T50MI9C2		#10 (M5)	50.0 (225.0)	12.4 (315.0)	3.4 (85.0)	0.2 (4.7)	PA66	Natural	100
T50MI9M4		#10 (M5)	50.0 (225.0)	12.4 (315.0)	3.4 (85.0)	0.2 (4.7)	PA66	Natural	1000

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

# Bundling and Securing

## Self-Affixing Cable Ties

### Screw Mount Cable Ties

#### Screw Mount Ties

PART NO.	TYPE	Mounting Screw Type	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width in. (mm)	Material	Color	Pkg. Qty.
T50ML0C2*	T50ML	#10 (M5)	50.0 (225.0)	15.4 (390.0)	4.0 (100.0)	0.2 (4.7)	PA66	Black	100
T50ML0M4*		#10 (M5)	50.0 (225.0)	15.4 (390.0)	4.0 (100.0)	0.2 (4.7)	PA66	Black	1000
T50ML9M4*		#10 (M5)	50.0 (225.0)	15.4 (390.0)	4.0 (100.0)	0.2 (4.7)	PA66	Natural	1000
T50ML9C2*		#10 (M5)	50.0 (225.0)	15.4 (390.0)	4.0 (100.0)	0.2 (4.7)	PA66	Natural	100
T50MR0C2*	T50MR	#10 (M5)	50.0 (225.0)	8.5 (215.0)	1.8 (45.0)	0.2 (4.7)	PA66	Black	100
T50MR0M4*		#10 (M5)	50.0 (225.0)	8.5 (215.0)	1.8 (45.0)	0.2 (4.7)	PA66	Black	1000
T50MR9M4*		#10 (M5)	50.0 (225.0)	8.5 (215.0)	1.8 (45.0)	0.2 (4.7)	PA66	Natural	1000
T50MR9X2*		#10 (M5)	50.0 (225.0)	8.5 (215.0)	1.8 (45.0)	0.2 (4.7)	PA66	Natural	25
T50MR0HSM4*		#10 (M5)	50.0 (225.0)	8.5 (215.0)	1.8 (45.0)	0.2 (4.7)	PA66	Black	1000
T50MR9C2*		#10 (M5)	50.0 (225.0)	8.5 (215.0)	1.8 (45.0)	0.2 (4.7)	PA66	Natural	100
T120MR0K2*	T120MR	1/4" (M6)	120.0 (535.0)	15.6 (395.0)	4.0 (102.0)	0.3 (7.6)	PA66	Black	50
T120MR0UVK2		1/4" (M6)	120.0 (535.0)	15.6 (395.0)	4.0 (102.0)	0.3 (7.6)	PA66HIRHSUV	Black	50
T120MR9K2*		1/4" (M6)	120.0 (535.0)	15.6 (395.0)	4.0 (102.0)	0.3 (7.6)	PA66	Natural	50
T120MR9H4*		1/4" (M6)	120.0 (535.0)	15.6 (395.0)	4.0 (102.0)	0.3 (7.6)	PA66	Natural	500
T120MR0H4*		1/4" (M6)	120.0 (535.0)	15.6 (395.0)	4.0 (102.0)	0.3 (7.6)	PA66	Black	500

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P. \*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.



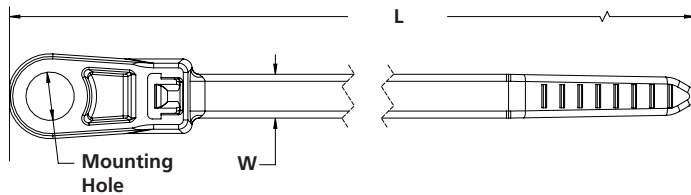
### Screw Mount Cable Ties

#### Screw Mount Ties - Extra Strength

Screw Mount Cable Ties attach to existing holes using a screw or bolt to provide a fastening point to secure and route wire and cable bundles. Reinforced ribs between the screw mount and cable tie head provide additional strength for added bundle stability and security.

#### Features and Benefits

- Screw mount style creates low insertion and high extraction force.
- Unique design adds strength between the screw mount and cable tie head to keep bundles secure.



PART NO.	TYPE	Mounting Screw Type	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width in. (mm)	Material	Color	Pkg. Qty.
113-00060	T50MRX	1/4" (M6)	50.0 (225.0)	8.0 (211.0)	1.8 (45.0)	0.2 (4.7)	PA66HIRHSUV	Black	100
113-00061		1/4" (M6)	50.0 (255.0)	8.0 (211.0)	1.8 (45.0)	0.2 (4.7)	PA66HIRHSUV	Black	1000

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

# Bundling and Securing

## Self-Affixing Cable Ties

### Edge Clip Cable Ties


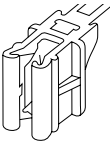
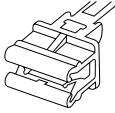
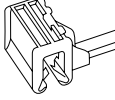
#### 1-Piece Cable Tie with Edge Clip

HellermannTyton's Cable Tie with Edge Clip is designed to route bundles by securing them to the edge of a plastic or metal sheet without the need for a mounting hole. The clip is easy to secure, and the extraction force is high due to the integrated metal clamp that holds the edge clip in place. This fastener is molded as a one-piece clip and tie combination.

#### Features and Benefits

- An all-in-one bundling and fastening solution that saves time and reduces costs.
- Ideal for mounting in a way that requires no holes or drilling.



PART NO.	TYPE	Panel Thickness in. (mm)	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Material	Color	Pkg. Qty.	Drawing
133-00059	T40XEC5SP-E	0.04 – 0.12 (1.0 – 3.0)	40.0 (178)	3.5 (85.0)	0.6 (15.0)	PA66HS	Black	500	
148-00200	T50SOSEC12E	0.04 – 0.12 (1.0 – 3.0)	40.0 (180)	6.0 (160.0)	1.40 (35.0)	PA66HS	Black	500	
126-00000	T50SOSEC13E	0.04 – 0.12 (1.0 – 3.0)	40.0 (180)	6.0 (160.0)	1.40 (35.0)	PA66HS	Black	500	
126-00036	T50SOSEC34E	0.04 – 0.12 (1.0 – 3.0)	40.0 (180)	6.0 (155.0)	1.40 (35.0)	PA66HS	Black	500	

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

Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

### Edge Clip Cable Ties

#### 2-Piece Cable Tie with Edge Clip

HellermannTyton's Two Piece Edge Clip with Cable Tie Assemblies are designed specifically to route bundles by securing them to the edge of a plastic or metal sheet without the need for a mounting hole. The clip is easy to secure and the extraction force is high due to the integrated metal clamp that holds the edge clip in place.

#### Features and Benefits

- Edge Clip applies easily to plastic and metal sheets without the need for a mounting hole.
- Edge Clip provides low insertion force and high extraction force ideal for assembly environments.



PART NO.	TYPE	Panel Thickness in. (mm)	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Material Cable Tie	Material Edge Clip	Color	Pkg. Qty.	Drawing
156-01601	CBT050R	0.04 – 0.12 (1.0 – 3.0)	50.0 (225)	8.0 (202)	1.9 (47.0)	PA66HS	PA66HIRHSUV	Black	500	
156-02230	T50REC4A	0.04 – 0.12 (1.0 – 3.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PA66HIRHSUV	PA66HIRHSUVR5	Black	100	
156-02231		0.04 – 0.12 (1.0 – 3.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PA66HIRHSUV	PA66HIRHSUVR5	Black	500	
156-00539		0.04 – 0.12 (1.0 – 3.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PA66HS	PA66HIRHSUV	Black	500	
156-00635		0.04 – 0.12 (1.0 – 3.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PA66UV	PA66HIRHSUV	Black	100	
156-00564		0.04 – 0.12 (1.0 – 3.0)	25.0 (110)	8.0 (202.0)	2.0 (50.0)	PP	PA66HIRHSUV	Black	500	
156-02228		0.04 – 0.12 (1.0 – 3.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PA66HIRHSUV	PA66HIRHSUVR5	Black	100	
156-02229	T50REC4B	0.04 – 0.12 (1.0 – 3.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PA66HIRHSUV	PA66HIRHSUVR5	Black	500	
156-00538		0.04 – 0.12 (1.0 – 3.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PA66HS	PA66HIRHSUV	Black	500	
156-00588		0.04 – 0.12 (1.0 – 3.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PA66UV	PA66HIRHSUV	Black	100	
156-00565		0.04 – 0.12 (1.0 – 3.0)	25.0 (110)	8.0 (202.0)	2.0 (50.0)	PP	PA66HIRHSUV	Black	500	
156-00565		0.04 – 0.12 (1.0 – 3.0)	25.0 (110)	8.0 (202.0)	2.0 (50.0)	PP	PA66HIRHSUV	Black	500	

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

# Bundling and Securing

## Self-Affixing Cable Ties

### Edge Clip Cable Ties

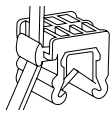
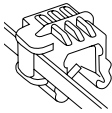
#### Cable Tie with Edge Clip

PART NO.	TYPE	Panel Thickness in. (mm)	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Material Cable Tie	Material Edge Clip	Color	Pkg. Qty.	Drawing
156-02226	T50REC5A	0.04 – 0.12 (1.0 – 3.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PA66HIRHSUV	PA66HIRHSUVR5	Black	100	
156-02227		0.04 – 0.12 (1.0 – 3.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PA66HIRHSUV	PA66HIRHSUVR5	Black	500	
156-00541		0.04 – 0.12 (1.0 – 3.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PA66HS	PA66HIRHSUV	Black	500	
156-00589		0.04 – 0.12 (1.0 – 3.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PA66UV	PA66HIRHSUV	Black	100	
156-02224	T50REC5B	0.04 – 0.12 (1.0 – 3.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PA66HIRHSUV	PA66HIRHSUVR5	Black	100	
156-02225		0.04 – 0.12 (1.0 – 3.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PA66HIRHSUV	PA66HIRHSUVR5	Black	500	
156-00540		0.04 – 0.12 (1.0 – 3.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PA66HS	PA66HIRHSUV	Black	500	
156-00468		0.04 – 0.12 (1.0 – 3.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PA66UV	PA66HIRHSUV	Black	100	
156-00551	T50REC9SD	0.04 – 0.12 (1.0 – 3.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PA66HS	PA66HIRHSUV	Black	500	
156-00537	T50REC19	0.12 – 0.24 (3.0 – 6.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PA66HS	PA66HIRHSUV	Black	500	
156-00590		0.12 – 0.24 (3.0 – 6.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PA66UV	PA66HIRHSUV	Black	100	
156-00555	T50REC20	0.12 – 0.24 (3.0 – 6.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PA66HS	PA66HIRHSUV	Black	500	
156-00591		0.12 – 0.24 (3.0 – 6.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PA66UV	PA66HIRHSUV	Black	100	
156-00561		0.12 – 0.24 (3.0 – 6.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PP	PA66HIRHSUV	Black	500	
156-00553	T50REC21	0.04 – 0.12 (1.0 – 3.0)	50.0 (225)	8.0 (202.0)	2.0 (45.0)	PA66HS	PA66HIRHSUV	Black	500	
156-00554	T50REC22	0.04 – 0.12 (1.0 – 3.0)	50.0 (225)	8.0 (202.0)	2.0 (45.0)	PA66HS	PA66HIRHSUV	Black	500	

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

### Edge Clip Cable Ties

#### Cable Tie with Edge Clip

PART NO.	TYPE	Panel Thickness in. (mm)	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Material Cable Tie	Material Edge Clip	Color	Pkg. Qty.	Drawing
156-00556	T50REC23	0.12 – 0.24 (3.0 – 6.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PA66HS	PA66HIRHSUV	Black	500	
156-00592		0.12 – 0.24 (3.0 – 6.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PA66UV	PA66HIRHSUV	Black	100	
156-01162		0.12 – 0.24 (3.0 – 6.0)	50.0 (225)	8.0 (202.0)	2.0 (45.0)	PA66UV	PA66HIRHSUV	Black	500	
156-00567		0.12 – 0.24 (3.0 – 6.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PP	PA66HIRHSUV	Black	500	
156-00593	T50REC24	0.12 – 0.24 (3.0 – 6.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PA66UV	PA66HIRHSUV	Black	100	
156-00557		0.12 – 0.24 (3.0 – 6.0)	50.0 (225)	8.0 (202.0)	2.0 (50.0)	PA66UV	PA66HIRHSUV	Black	500	

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

# Bundling and Securing

## Self-Affixing Cable Ties

### Edge Clip Cable Ties

#### Outside Serrated Cable Tie with Edge Clip

HellermannTyton's Two Piece Edge Clip with Cable Tie Assemblies are designed specifically to route bundles by securing them to the edge of a plastic or metal sheet without the need for a mounting hole. The clip is easy to secure and the extraction force is high due to the integrated metal clamp that holds the edge clip in place.

#### Features and Benefits

- Edge Clip applies easily to plastic and metal sheets without the need for a mounting hole.
- Edge Clip provides low insertion force and high extraction force ideal for assembly environments.
- Two piece assembly allows the mount to slide along the strap ensuring proper orientation.
- Cable tie is outside serrated to reduce bundle chafing.



PART NO.	TYPE	Panel Thickness in. (mm)	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Material Cable Tie	Material Edge Clip	Color	Pkg. Qty.	Drawing
156-01797	T30ROSEC0.5-2.5SP-SVA	0.01 – 0.10 (0.5 – 2.5)	30.0 (133.0)	5.7 (145.0)	1.4 (35.0)	PA66HS	PA66HIRHS	Black	500	
156-01546	T30ROSEC0.5-2.5SP-SVB	0.01 – 0.10 (0.5 – 2.5)	30.0 (135.0)	5.7 (145.0)	1.4 (35.0)	PA66HS	PA66HIRHS	Black	500	
156-00858	T50SOSEC4A	0.04 – 0.12 (1.0 – 3.0)	50.0 (225.0)	6.0 (150.0)	1.4 (35.0)	PA66HS	PA66HIRHS	Black	500	
156-00860	T50ROSEC4A	0.04 – 0.12 (1.0 – 3.0)	50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	PA66HS	PA66HIRHS	Black	500	
156-00859	T50SOSEC4B	0.04 – 0.12 (1.0 – 3.0)	50.0 (225.0)	6.0 (150.0)	1.4 (35.0)	PA66HS	PA66HIRHS	Black	500	
156-00861	T50ROSEC4B	0.04 – 0.12 (1.0 – 3.0)	50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	PA66HS	PA66HIRHS	Black	500	
156-00865	T50SOSEC5A	0.04 – 0.12 (1.0 – 3.0)	50.0 (225.0)	6.0 (150.0)	1.4 (35.0)	PA66HS	PA66HIRHS	Black	500	
156-00864	T50ROSEC5A	0.04 – 0.12 (1.0 – 3.0)	50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	PA66HS	PA66HIRHS	Black	500	
156-00863	T50SOSEC5B	0.04 – 0.12 (1.0 – 3.0)	50.0 (225.0)	6.0 (150.0)	1.4 (35.0)	PA66HS	PA66HIRHS	Black	500	

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

### Edge Clip Cable Ties

#### Outside Serrated Cable Tie with Edge Clip

PART NO.	TYPE	Panel Thickness in. (mm)	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Material Cable Tie	Material Edge Clip	Color	Pkg. Qty.	Drawing
156-00862	T50ROSEC5B	0.04 – 0.12 (1.0 – 3.0)	50.0 (225.0)	8.0 (202.0)	2.0 (50.0)	PA66HS	PA66HIRHS	Black	500	
156-00866	T50SOSEC9SD	0.04 – 0.12 (1.0 – 3.0)	50.0 (225.0)	6.0 (150.0)	1.4 (31.0)	PA66HS	PA66HIRHS	Black	500	
156-00867	T50ROSEC9	0.04 – 0.12 (1.0 – 3.0)	50.0 (225.0)	8.0 (200.0)	2.0 (45.0)	PA66HS	PA66HIRHS	Black	500	
156-00870	T50SOSEC10	0.04 – 0.12 (1.0 – 3.0)	50.0 (225.0)	6.0 (150.0)	1.4 (31.0)	PA66HS	PA66HIRHS	Black	500	
156-00871	T50ROSEC10	0.04 – 0.12 (1.0 – 3.0)	50.0 (225.0)	8.0 (200.0)	2.0 (45.0)	PA66HS	PA66HIRHS	Black	500	
156-04601	T50SOSEC19	0.12 – 0.24 (3.0 – 6.0)	50.0 (225.0)	6.0 (150.0)	1.4 (35.0)	PA66HS	PA66HIRHS	Black	500	
156-00872	T50ROSEC19	0.12 – 0.24 (3.0 – 6.0)	50.0 (225.0)	8.0 (200.0)	2.0 (45.0)	PA66HS	PA66HIRHS	Black	500	
156-00016	T50SOSEC20	0.12 – 0.24 (3.0 – 6.0)	50.0 (225.0)	6.0 (150.0)	1.4 (35.0)	PA66HS	PA66HIRHS	Black	500	
156-00873	T50ROSEC20	0.12 – 0.24 (3.0 – 6.0)	50.0 (225.0)	8.0 (200.0)	2.0 (45.0)	PA66HS	PA66HIRHS	Black	500	
156-00017	T50SOSEC21	0.04 – 0.12 (1.0 – 3.0)	50.0 (225.0)	6.0 (150.0)	1.4 (35.0)	PA66HS	PA66HIRHS	Black	500	
156-00874	T50ROSEC21	0.04 – 0.12 (1.0 – 3.0)	50.0 (225.0)	8.0 (200.0)	2.0 (45.0)	PA66HS	PA66HIRHS	Black	500	
156-00875	T50SOSEC22	0.04 – 0.12 (1.0 – 3.0)	50.0 (225.0)	6.0 (150.0)	1.4 (35.0)	PA66HS	PA66HIRHS	Black	500	
156-00876	T50ROSEC22	0.04 – 0.12 (1.0 – 3.0)	50.0 (225.0)	8.0 (200.0)	2.0 (45.0)	PA66HS	PA66HIRHS	Black	500	
156-00877	T50ROSEC23	0.12 – 0.24 (3.0 – 6.0)	50.0 (225.0)	8.0 (200.0)	2.0 (45.0)	PA66HS	PA66HIRHS	Black	500	
156-00878	T50ROSEC24	0.12 – 0.24 (3.0 – 6.0)	50.0 (225.0)	8.0 (200.0)	2.0 (45.0)	PA66HS	PA66HIRHS	Black	500	

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO7, EVO7SP, EVO9, EVO9HT, MK7P, MK7HT, MK9P.

# Bundling and Securing

## Self-Affixing Cable Ties

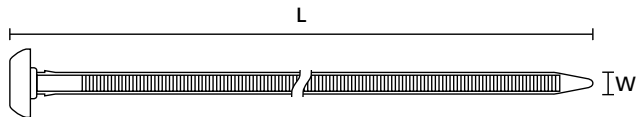
### Button Head Cable Ties

#### Button Head Ties

HellermannTyton's Button Head Tie is a two-piece tie designed for parallel entry and exit through the head. The strap is inserted through a panel hole, the bundle is put in position beneath the hole, and the strap is looped and reinserted up through the panel hole and the tie head. Since the strap is serrated on both sides, the installer can loop it either way.

#### Features and Benefits

- Excellent bundle fastening method for through-the-hole applications.
- Ribs add stability on the bottom of the head.
- Serrations and wedge shape combine to provide optimal strength when strap serrations are seated in the head.
- Low-profile head is unobtrusive.



PART NO.	TYPE	Max. Bundle Diameter in. (mm)	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
132-00033	BT105R	2.6 (66.7)	105.0 (467.0)	9.6 (244.4)	0.2 (5.6)	PA66HIRHSUV	Black	2000
132-00035	BT130RDP	2.9 (73.0)	130.0 (578.0)	10.5 (267.0)	0.3 (7.6)	PA66HIRHSUV	Black	2000
132-00032	BT105L	4.3 (110.0)	105.0 (467.0)	15.0 (381.5)	0.2 (5.6)	PA66HIRHSUV	Black	2000
132-00034	BT130LDP	4.3 (110.0)	130.0 (578.0)	15.0 (381.5)	0.3 (7.6)	PA66HIRHSUV	Black	2000

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO9, EVO9HT, MK9P.



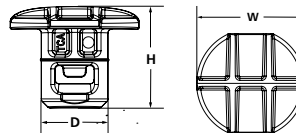
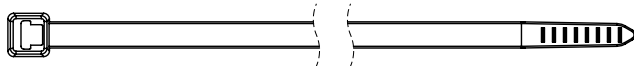
### Button Head Cable Ties

#### Button Mount with Cable Tie

This Button Mount with Cable Tie is used to secure cables and wire bundles on solar modules. The mount conveniently fits existing holes in most solar modules with zero insertion force. Made from impact-modified, heat-resistant, UV stabilized Polyamide 6.6 material, it is specifically formulated for extreme environments. The mount is designed to withstand movement, particularly on single-axis tracker systems, for years of dependable performance.

#### Features and Benefits

- Capable of holding several cables, depending on cable tie size, for ultimate flexibility.
- Withstands tracker movement to prevent chafing of wires.
- Zero-insertion-force design requires no tools for quick and easy mounting to most solar modules.
- High impact modified, heat-resistant, UV stabilized material is ideal for long-term performance in extreme weather.



PART NO.	TYPE	Cable Tie Series	Mounting Hole Dia. (D) in. (mm)	Max. Panel Thickness in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
156-02512	T50RPBM9SET	T50R	0.35 x 0.47, 0.35 x 0.55 (9.0 x 12.0), (9.0 x 14.0)	0.12 (3.0)	2.0 (50.0)	0.7 (17.0)	0.5 (13.4)	PA66HIRHSUV	Black	500
156-02513		T50R	0.35 x 0.47, 0.35 x 0.55 (9.0 x 12.0), (9.0 x 14.0)	0.12 (3.0)	2.0 (50.0)	0.7 (17.0)	0.5 (13.4)	PA66HIRHSUV	Black	1000

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO9, EVO9HT, MK9P.

# Bundling and Securing

## Self-Affixing Cable Ties

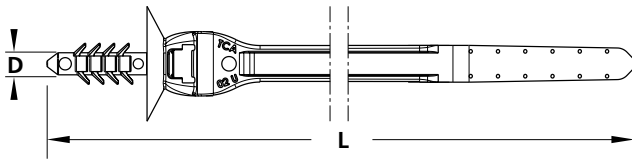
### Blind Hole Mount Cable Ties

#### Blind Hole Mount Cable Ties for Threaded Holes

HellermannTyton Blind Hole Mount Cable Tie for Threaded Holes offers an easy-to-use method for bundling and affixing cables. The one-piece mount offers a low insertion force and aggressively resists pull off, for secure attachment to panels with thicknesses from 0.02" to 0.28" or threaded blind holes. The disc on top of the mount covers the hole and minimizes ingress of water and debris.

#### Features and Benefits

- One-piece design allows installers to mount and bundle wire or cables single-handedly.
- Fastener delivers high extraction force for reliable performance, yet it's easy to install.
- Can be unscrewed or extracted from threaded holes for easy removal.



PART NO.	TYPE	Diameter (D) in. (mm)	Panel Thickness in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Length (L) in. (mm)	Min. Tensile Strength lbs. (N)	Material	Color	Pkg. Qty.
157-00144	T50ROSFTQM6	0.3 (6.0)	0.02 – 0.28 (0.6 – 7.0)	0.1 (1.6)	2.0 (50.0)	8.0 (203.6)	50.0 (222.0)	PA46	Brown	500
157-00163		0.3 (6.0)	0.02 – 0.28 (0.6 – 7.0)	0.1 (1.6)	2.0 (50.0)	8.0 (203.6)	50.0 (222.0)	PA66HIRHS	Gray	500
157-00112		0.3 (6.0)	0.02 – 0.28 (0.6 – 7.0)	0.1 (1.6)	2.0 (50.0)	8.0 (203.6)	50.0 (222.0)	PA66HIRHSUV	Black	500

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO9, MK9HT, MK9P.

### Blind Hole Mount Cable Ties

#### 2-Piece Cable Tie and Blind Hole Mount Assemblies

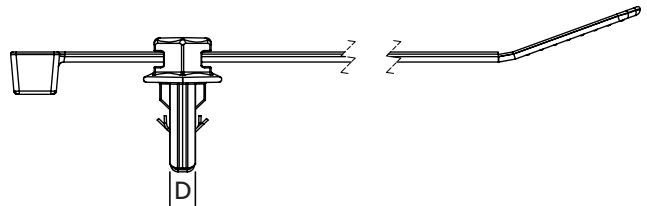
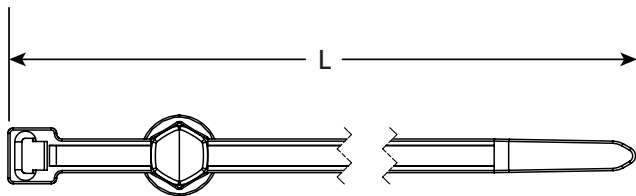
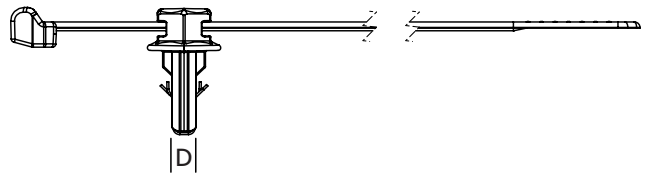
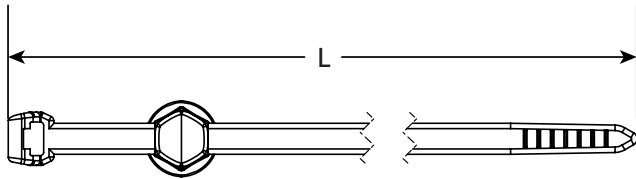
HellermannTyton Blind Hole Mount Cable Ties for threaded and nonthreaded holes offer an easy-to-use method for bundling and affixing cables. The two-piece design includes a heat stabilized cable tie and formula-matched, 1/4" mount that features a low insertion force and aggressively resists pull off. Performs equally well in threaded or nonthreaded blind holes. Mount can slide along cable tie to adjust orientation if needed. Fastener can be removed from hole using a hex driver. This ensures fastener can be reused.

#### Features and Benefits

- Delivers high extraction force for reliable performance, yet it's easy to install.
- Reusable fastener can be removed from threaded or nonthreaded holes using a 5/16" hex driver.
- Heat stabilized material provides excellent resistance to high temperatures.



#### Outside Serrated



#### Inside Serrated

PART NO.	TYPE	Diameter (D) in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Length (L) in. (mm)	Min. Tensile Strength lbs. (N)	Material Cable Tie	Color	Pkg. Qty.
156-01807	T50SOSBHMB	0.3 (6.0)	0.1 (2.5)	1.4 (35.0)	6.0 (150.0)	50.0 (225.0)	PA66HS	Black	500
156-01726	T50RBHMB	0.3 (6.0)	0.1 (2.5)	2.0 (50.0)	8.0 (200.0)	50.0 (225.0)	PA66HS	Black	500
156-01796	T50ROSBHMB	0.3 (6.0)	0.1 (2.5)	2.0 (50.0)	8.0 (200.0)	50.0 (225.0)	PA66HS	Black	500

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO9, MK9HT, MK9P.

# Bundling and Securing

## Self-Affixing Cable Ties

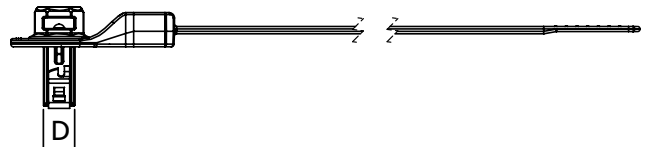
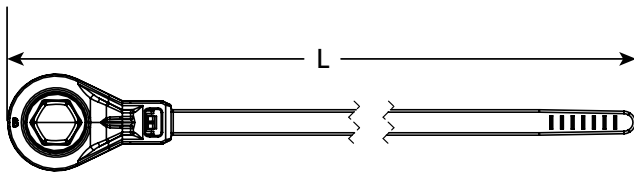
### Blind Hole Mount Cable Ties

#### Offset Cable Tie and Blind Hole Mount Assembly

Blind Hole Mount Offset Cable Ties secure bundles beside the mounting hole instead of directly above it. The unique design includes a heat stabilized cable tie and formula-matched, hex-head fastener that features a low insertion force and aggressively resists pull off. Performs equally well in threaded or non-threaded blind holes. Since cable or wire bundle is beside the fastener, the assembly can be removed using a hex driver from the mounting hole without cutting the cable tie. The fastener can then be reused.

#### Features and Benefits

- Offset mount allows wire or cable to be attached beside mounting hole instead of directly above it.
- Reusable fastener can be extracted from threaded or nonthreaded holes using a 5/16" hex driver.
- Delivers high extraction force for reliable performance, yet it's easy to install.
- Heat stabilized material provides excellent resistance to high temperatures.



PART NO.	TYPE	Offset Length in. (mm)	Diameter (D) in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Length (L) in. (mm)	Min. Tensile Strength lbs. (N)	Material	Color	Pkg. Qty.
157-00329	T50ROS BH MBSO18	0.7 (18.0)	0.3 (6.0)	0.1 (2.0)	2.0 (50.0)	8.0 (200.0)	50.0 (225.0)	PA66HS	Black	500

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO9, MK9HT, MK9P.

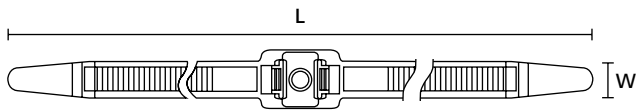
### Dual Clamp Ties

#### Dual Clamp Ties

HellermannTyton's Dual-Clamp Ties are designed to provide parallel separation between hoses, wires, cables, and tubing to protect them from abrasion. These ties have an optional mounting hole for securing bundles along the chassis of trucks, trailers, and heavy duty equipment. The unique one-piece design features the dual head centered on the strap.

#### Features and Benefits

- Provides dual separation between bundles to prevent abrasion.
- High tensile strength delivers reliable performance for heavy duty applications.
- Wide strap is designed to minimize pinching of soft hoses and convoluted tubing.



PART NO.	TYPE	Stud Dia. in. (mm)	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
DCT90HIRK2	DCT9	1/4 (M6)	150.0 (667.0)	13.0 (330.2)	1.3 (33.0)	0.5 (12.7)	PA66HIRHSUV	Black	50
DCT90HIRH1		1/4 (M6)	150.0 (667.0)	13.0 (330.2)	1.3 (33.0)	0.5 (12.7)	PA66HIRHSUV	Black	50
DCT90HIRC2		1/4 (M6)	150.0 (667.0)	13.0 (331.0)	1.3 (33.0)	0.5 (12.7)	PA66HIRHS	Black	100
DCT110HIRK2	DCT11	1/4 (M6)	150.0 (667.0)	19.2 (487.7)	2.3 (58.0)	0.5 (12.7)	PA66HIRHSUV	Black	50
DCT110HIRH1		1/4 (M6)	150.0 (667.0)	19.2 (487.7)	2.3 (58.0)	0.5 (12.7)	PA66HIRHSUV	Black	500
DCT110HIRC2		1/4 (M6)	150.0 (667.0)	19.2 (487.7)	2.3 (58.0)	0.5 (12.7)	PA66HIRHSUV	Black	100

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO9, EVO9HT, MK9P.

# Bundling and Securing

## Bundle Separators

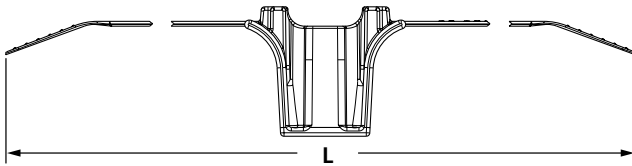
### Dual Clamp Ties

#### Stand Off Mounting Dual Clamp Tie

HellermannTyton's Stand Off Dual Clamp Ties offer the same features as the standard dual clamp tie, with a standoff mount that secures the bundle away from the surface. This protects the bundles from bolts and other protrusions.

#### Features and Benefits

- Wide strap minimizes pinching of soft hoses and convoluted tubing.
- Locking stud mount pawls allow for easy hand insertion.
- Nut or weld nesting counterbore provides flush mounting at the base.



PART NO.	TYPE	Stud Dia. in. (mm)	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width in. (mm)	Material	Color	Pkg. Qty.
117-00012	SDCTR312	5/16 (M8)	100.0 (445.0)	20.1 (510.5)	2.3 (58.4)	0.5 (12.7)	PA66HIRHSUV	Black	250
157-00060	SDCTL	5/16 (M8)	100.0 (445.0)	26.1 (663.0)	3.4 (86.4)	0.5 (12.7)	PA66HIRHSUV	Black	250

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Installation tools: EVO9, EVO9HT, MK9P.

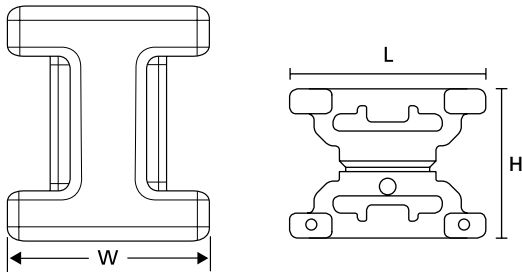
### Dual Swivel Saddle Spacers

#### DSWS4 Series

These saddle spacers are installed between two bundles (such as wires, cables, hoses, tubing, conduit, etc.) to separate and prevent chafing and wear. The mounts can be easily rotated by hand, allowing the bundles to be crossed and rotated at any angle. Cable ties, which secure the bundles, are used with the mounts. The dual swivel saddle spacers accommodate cable ties up to 1/2" wide.

#### Features and Benefits

- H-profile of the saddles allows for broad surface contact with the bundle, which minimizes pinching and crushing of the bundle.
- Swivels in 360-degree motion to accommodate any area.
- Accommodates T50–T250 ties to handle both light-duty and heavy-duty applications.



PART NO.	TYPE	Cable Tie Series	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Min. Extraction Force lbs. (N)	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
151-00644	DSWS4	T50 - T250	0.3 (6.0)	3.0 (76.0)	100.0 (445.0)	0.9 (23.6)	0.8 (20.3)	0.7 (18.0)	PA66HS, POM	Black	50
151-06500		T50 - T250	0.3 (6.0)	3.0 (76.0)	100.0 (445.0)	0.9 (23.6)	0.8 (20.3)	0.7 (18.0)	PA66HS, POM	Black	2200

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

# Bundling and Securing

## Bundle Separators

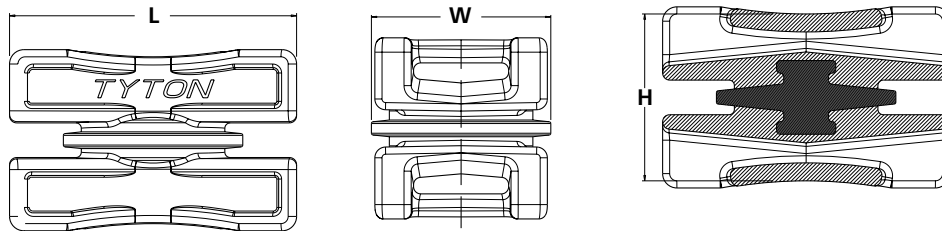
### Dual Swivel Saddle Spacers

#### DSWS5 Series

These saddle spacers are installed between two bundles (such as wires, cables, hoses, tubing, conduit, etc.) to separate and prevent chafing and wear. The mounts can be easily rotated by hand, allowing the bundles to be crossed and rotated at any angle. Cable ties, which secure the bundles, are used with the mounts. The dual swivel saddle spacers accommodate cable ties up to 1/2" wide.

#### Features and Benefits

- H-profile of the saddles allows for broad surface contact with the bundle, which minimizes pinching and crushing of the bundle.
- Swivels in 360-degree motion to accommodate any area.
- Accommodates T50–T250 ties to handle both light-duty and heavy-duty applications.



PART NO.	TYPE	Cable Tie Series	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Min. Extraction Force lbs. (N)	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
DSWS50HSH1	DSWS5	T50 - T250	0.7 (16.0)	6.0 (152.0)	250.0 (1,112.0)	1.6 (40.6)	1.0 (25.4)	0.9 (23.6)	PA66HS, POM	Black	500
DSWS50HSK2		T50 - T250	0.7 (16.0)	6.0 (152.0)	250.0 (1,112.0)	1.6 (40.6)	1.0 (25.4)	0.9 (23.6)	PA66HS, POM	Black	50

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



### Bundle Separation Clamps







#### HC Clamp Bundle Separators

HC Clamps separate multiple bundles and secure them to brackets or frame rails. Each mount has two pawls for easy pre-installation on a threaded fastener prior to securing with a mechanical fastener. HC Clamps have ribs, making them ideal for convoluted tubing.

#### Features and Benefits

- Separates and secures bundles avoiding abrasion.
- Comes in a variety of sizes and colors to be easily identified.



PART NO.	TYPE	Bundle Diameter Max. 1st Hole in. (mm)	Bundle Diameter Max. 2nd Hole in. (mm)	Bundle Diameter Max. 3rd Hole in. (mm)	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.	
133-00993	HC2A	1.0 (24.4)	1.0 (24.4)	-	2.7 (67.8)	1.1 (27.9)	1.38 (34.94)	PA66HIRHSGF	Black	500	
133-00994	HC2B	0.7 (17.4)	0.7 (17.4)	-	2.7 (67.8)	1.1 (27.9)	1.38 (34.94)	PA66HIRHSGF	Green	500	
133-00995	HC2C	0.7 (17.4)	1.0 (24.4)	-	2.7 (67.8)	1.1 (27.9)	1.38 (34.94)	PA66HIRHSGF	Blue	500	
133-00996	HC2D	0.7 (16.5)	1.0 (24.4)	-	2.7 (67.8)	1.1 (27.9)	1.38 (34.94)	PA66HIRHSGF	Natural	500	
133-00997	HC2E	0.5 (13.0)	0.5 (13.0)	-	2.7 (67.8)	1.1 (27.9)	1.38 (34.94)	PA66HIRHSGF	Red	500	
133-00998	HC3A	1.0 (24.4)	1.0 (24.4)	1.0 (24.4)	4.2 (107.9)	1.1 (27.9)	1.38 (34.94)	PA66HIRHSGF	Black	500	

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

# Bundling and Securing

## Bundle Separators

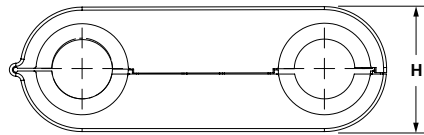
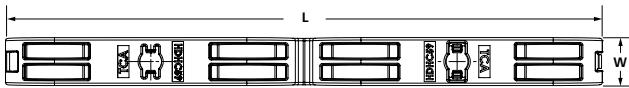
### Bundle Separation Clamps

#### Heavy Duty Hinge Clamps

These clamps separate multiple bundles and secure them to any surface with a 6.8 mm stud or bolt. The one-piece hinged design snaps together to keep bundles such as tubing or battery cables separated. The mounting hole features two pawls for easy preinstallation on a threaded fastener prior to securing with a mechanical fastener.

#### Features and Benefits

- High-heat material can be used near engines and other sources of heat.
- Hinged design keeps two halves together and simplifies assembly.
- Secures with a single bolt or stud, providing quick installation.



PART NO.	TYPE	Max. Bundle Diameter in. (mm)	Mounting Hole Dia. in. (mm)	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
151-01231	HDHC59	0.6 (15.0)	0.3 (6.8)	7.3 (186.0)	0.6 (14.5)	1.22 (30.9)	PA46	Black	250

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

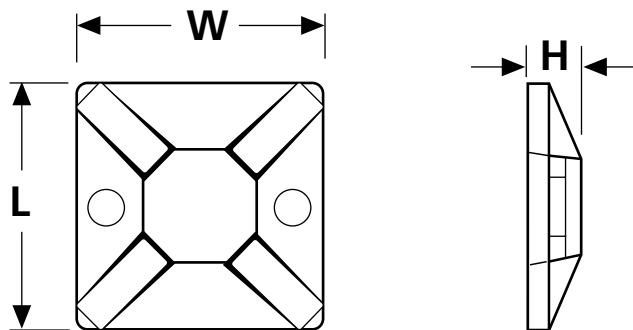
### Adhesive Mounting Bases

#### Cable Tie Mounting Bases - Rubber Adhesive

HellermannTyton Adhesive Cable Tie Mounting Bases are used with T18 through T150 Series cable ties to provide stability when securing bundles. The mounts are installed using the adhesive backing and/or by securing two or four screws. The 4-way opening allows the cable ties to be inserted parallel or perpendicular to the wire bundles. Rubber-based adhesive allows for a permanent bond to most surfaces.

#### Features and Benefits

- Durable adhesive achieves high pull-off force and is unaffected by vibration.
- 4-way opening allows cable ties to be installed parallel or perpendicular to bundles.
- Pre-drilled holes extend mounting options and security.
- Extended adhesive liner is easy to remove quickly.



PART NO.	TYPE	Cable Tie Series	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
MB2.5A0C2	MB2.5A	T18	0.6 (15.9)	0.6 (15.9)	0.2 (4.1)	PA66	Black	100
MB2.5A10C2		T18	0.6 (15.9)	0.6 (15.9)	0.2 (4.1)	PA66	White	100
MB2.5A0M4		T18	0.6 (15.9)	0.6 (15.9)	0.2 (4.1)	PA66	Black	1000
MB2.5A10M4		T18	0.6 (15.9)	0.6 (15.9)	0.2 (4.1)	PA66	White	1000
MB3A0C2	MB3A	T18 - T30	0.8 (19.0)	0.8 (19.0)	0.2 (4.6)	PA66	Black	100
MB3A10C2		T18 - T30	0.8 (19.0)	0.8 (19.0)	0.2 (4.6)	PA66	White	100
MB3A0M4		T18 - T30	0.8 (19.0)	0.8 (19.0)	0.2 (4.6)	PA66	Black	1000
MB3A10M4		T18 - T30	0.8 (19.0)	0.8 (19.0)	0.2 (4.6)	PA66	White	1000
MB4A0C2	MB4A	T18 - T50	1.1 (28.5)	1.1 (28.5)	0.2 (5.6)	PA66	Black	100
MB4A10C2		T18 - T50	1.1 (28.5)	1.1 (28.5)	0.2 (5.6)	PA66	White	100
MB4A0H4		T18 - T50	1.1 (28.5)	1.1 (28.5)	0.2 (5.6)	PA66	Black	500
MB4A10H4		T18 - T50	1.1 (28.5)	1.1 (28.5)	0.2 (5.6)	PA66	White	500

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

\*This product meets UL standards. Please see appendix for specific file numbers.

# Bundling and Securing

## Cable Tie Mounts

### Adhesive Mounting Bases

#### Cable Tie Mounting Bases - Rubber Adhesive

PART NO.	TYPE	Cable Tie Series	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
MB4SHA0C2	MB4SHA	T18 - T50	1.1 (28.3)	1.1 (28.3)	0.2 (5.8)	PA66	Black	100
MB4SHA0H4		T18 - T50	1.1 (28.3)	1.1 (28.3)	0.2 (5.8)	PA66	Black	500
MB4SHA10H4		T18 - T50	1.1 (28.3)	1.1 (28.3)	0.2 (5.8)	PA66	White	500
MB4SHA10C2		T18 - T50	1.1 (28.3)	1.1 (28.3)	0.2 (5.8)	PA66	White	100
MB5A0C2	MB5A	T18 - T150	1.5 (37.7)	1.5 (37.7)	0.3 (7.1)	PA66	Black	100
MB5A10C2		T18 - T150	1.5 (37.7)	1.5 (37.7)	0.3 (7.1)	PA66	White	100
MB5A0F4		T18 - T150	1.5 (37.7)	1.5 (37.7)	0.3 (7.1)	PA66	Black	250
MB5A10F4		T18 - T150	1.5 (37.7)	1.5 (37.7)	0.3 (7.1)	PA66	White	250

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

\*This product meets UL standards. Please see appendix for specific file numbers.

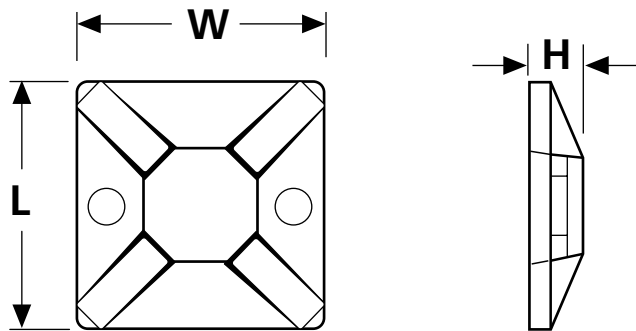
### Adhesive Mounting Bases

#### Cable Tie Mounting Bases - Acrylic Adhesive

HellermannTyton Adhesive Cable Tie Mounting Bases are used with T18 through T150 Series cable ties to provide stability when securing bundles. The mounts are installed using the adhesive backing and/or by securing two or four screws. The 4-way opening allows the cable ties to be inserted parallel or perpendicular to the wire bundles. Acrylic-based adhesive allows for a permanent bond to a wide range of wood, metal and plastic surfaces.

#### Features and Benefits

- Acrylic adhesive offers excellent chemical, water and salt resistance and is unaffected by vibration.
- 4-way opening allows cable ties to be installed parallel or perpendicular to bundles.
- Predrilled holes extend mounting options and security.
- Extended adhesive liner is easy to remove quickly.



PART NO.	TYPE	Cable Tie Series	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
MB3A0A2H4	MB3A	T18 - T30	0.8 (19.0)	0.8 (19.0)	0.2 (4.8)	PA66	Black	500
MB3A10A2H4		T18 - T30	0.8 (19.0)	0.8 (19.0)	0.2 (4.8)	PA66	White	500
MB3A10A2C2		T18 - T30	0.8 (19.0)	0.8 (19.0)	0.2 (4.8)	PA66	White	100
MB4A0A2H4	MB4A	T18 - T50	1.1 (28.5)	1.1 (28.5)	0.2 (5.8)	PA66	Black	500
MB4A10A2C2		T18 - T50	1.1 (28.5)	1.1 (28.5)	0.2 (5.8)	PA66	White	100
MB4A10A2H4		T18 - T50	1.1 (28.5)	1.1 (28.5)	0.2 (5.8)	PA66	White	500
151-00810		T18 - T50	1.1 (28.5)	1.1 (28.5)	0.2 (5.8)	PA66UV	Black	100
151-00646		T18 - T50	1.1 (28.5)	1.1 (28.5)	0.2 (5.8)	PA66UV	Black	500
MB5A0A2F4		MB5A	T18 - T150	1.5 (37.7)	1.5 (37.7)	0.3 (7.1)	PA66	Black
MB5A10A2F4	T18 - T150		1.5 (37.7)	1.5 (37.7)	0.3 (7.1)	PA66	White	250

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

\*This product meets UL standards. Please see appendix for specific file numbers.

# Bundling and Securing

## Cable Tie Mounts

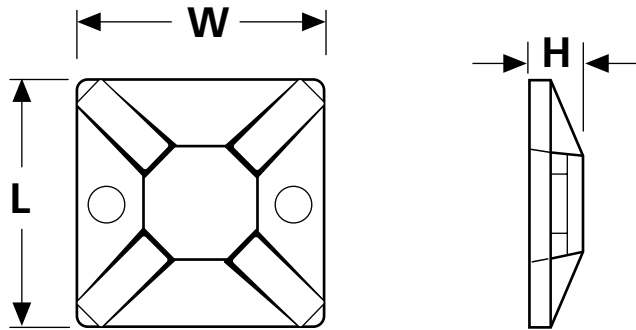
### Adhesive Mounting Bases

#### Cable Tie Mounting Bases - Acrylic Foam Adhesive

Adhesive Fastened Mounting Bases are used with 18 through 150 lb. cable ties to provide stability when securing bundles. The mounts are installed using the adhesive backing and/or by securing two or four screws. The four-way opening allows the cable ties to be inserted parallel or perpendicular to the wire bundles.

#### Features and Benefits

- Screwable or self-adhesive versions.
- Simple to install with a screw or bolt.
- Excellent security, particularly in areas of high vibration.
- Maximum surface area with adhesive to achieve high pull-off force.
- 4-way entry for cable tie for quicker and more flexible installation.



PART NO.	TYPE	Cable Tie Series	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
151-01630	MB3A	T18 - T30	0.8 (19.0)	0.8 (19.0)	0.2 (4.8)	PA66HIRHSUV	Black	500
151-01629		T18 - T30	0.8 (19.0)	0.8 (19.0)	0.2 (4.8)	PA66HIRHSUV	Black	100
151-01632	MB4A	T18 - T50	1.1 (28.5)	1.1 (28.5)	0.2 (5.6)	PA66HIRHSUV	Black	500
151-01631		T18 - T50	1.1 (28.5)	1.1 (28.5)	0.2 (5.6)	PA66HIRHSUV	Black	100
151-01634	MB5A	T18 - T150	1.5 (37.7)	1.5 (37.7)	0.3 (7.1)	PA66HIRHSUV	Black	250
151-01633		T18 - T150	1.5 (37.7)	1.5 (37.7)	0.3 (7.1)	PA66HIRHSUV	Black	100

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

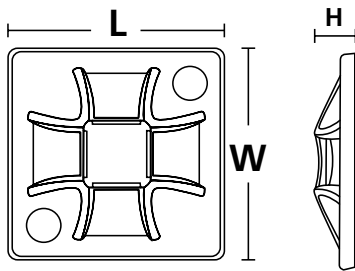
### Adhesive Mounting Bases

#### Q-Series Self-Adhesive Screwable Mounting Bases

Q-Mounts are designed to work exclusively with the Q-Tie cable tie series. This mounting component is available with adhesive and can alternatively be secured with screws. The Q-Mount allows either a 2- or 4-way entry for the Q-Tie, providing a quick and simple insertion into the mount. Once in place, the Q-Tie will not slip out, even in vertical mounting applications.

#### Features and Benefits

- 2- or 4-way entry options for the Q-Tie, offering flexibility and stability
- Designed for use with 18- through 50-pound cable ties to provide stability when securing bundles.
- Secures with adhesive or two screws, providing versatile installation options.



PART NO.	TYPE	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
151-10914	QM20A	0.8 (20.0)	0.8 (20.0)	0.2 (3.7)	PA66	Black	100
151-10904		0.8 (20.0)	0.8 (20.0)	0.2 (3.7)	PA66	Natural	100
151-10915	QM30A	1.2 (30.0)	1.2 (30.0)	0.2 (4.5)	PA66	Black	100
151-10905		1.2 (30.0)	1.2 (30.0)	0.2 (4.5)	PA66	Natural	100
151-10916	QM40A	1.6 (40.0)	1.6 (40.0)	0.3 (5.5)	PA66	Black	50
151-10906		1.6 (40.0)	1.6 (40.0)	0.3 (5.5)	PA66	Natural	50

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

# Bundling and Securing

## Cable Tie Mounts

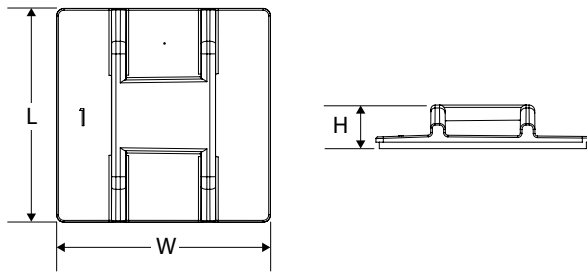
### Adhesive Mounting Bases

#### Wide Strap Adhesive Mounting Base

HellermannTyton's Wide Strap Adhesive Mount pairs with our exclusive line of Wide Strap Cable Ties and is ideal for extreme-duty applications. The mount features 3M™ VHB™ (Very High Bond) adhesive, which actually builds strength over time and holds securely to difficult materials such as aluminum, steel, plastics and painted and powder-coated surfaces.

#### Features and Benefits

- Wide slot extends the versatility of our Wide Strap Cable Ties.
- Extremely durable adhesive achieves high pull-off force and is unaffected by vibration.
- Mount made of proprietary, impact-modified PA66 material for extraordinary durability, and is heat stabilized and UV resistant for extended life outdoors.
- Peel and stick for quick, convenient use in extreme-duty applications.



PART NO.	TYPE	Cable Tie Series	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
151-01857	WSMB5AHB	T18 - T150	1.5 (37.7)	1.5 (37.7)	0.3 (7.7)	PA66HIRHSUV	Black	100

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



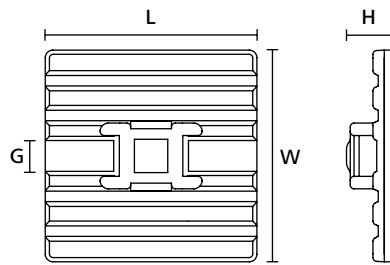
### Adhesive Mounting Bases

#### FlexTack Self Adhesive Mounts

HellermannTyton FlexTack Adhesive Cable Tie Mounts deliver excellent mounting performance on flat, curved and moderately angled surfaces. Use in combination with 18- through 50-pound cable ties to provide stability when securing bundles. Excellent performance in extreme environmental conditions for a wide range of indoor and outdoor applications; on varnished, powder coated, metal or plastic surfaces; in electrical equipment; and where drilling a hole is not possible or desirable. The 4-way saddle allows cable ties to be inserted parallel or perpendicular to the wire bundles.

#### Features and Benefits

- One base fits more surfaces – flat, curved and moderately angled – for versatile applications.
- High-strength, weather-resistant adhesive offers excellent performance indoors and out.
- 4-way opening allows parallel or perpendicular cable routing options.



PART NO.	TYPE	Cable Tie Series	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Cable Tie Width Max. (G) in. (mm)	Material	Color	Pkg. Qty.
151-01527	FMB4APT-I	T18 - T50	1.1 (28.0)	1.1 (28.0)	0.3 (6.3)	0.2 (5.4)	PA66HS	Black	100
151-01528		T18 - T50	1.1 (28.0)	1.1 (28.0)	0.3 (6.3)	0.2 (5.4)	PA66HS	White	100

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

# Bundling and Securing

## Cable Tie Mounts

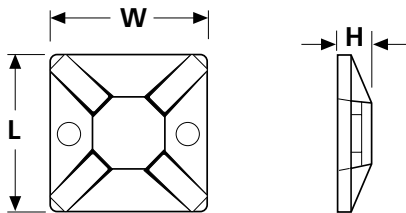
### Screw Mounting Bases

#### Cable Tie Mounting Bases - Screw Mount

These cable tie mounts are compact in size. They are designed for simple yet robust installation. They pair with a cable tie for mounting applications including telecom equipment, switchgear and control cabinets.

#### Features and Benefits

- Compact size fits most mounting applications.
- Simple to install with a screw or rivet.
- Single hole attachment with two-way entry for cable tie.



PART NO.	TYPE	Cable Tie Series	Mounting Screw Type	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
MB2.510C2*	MB2.5	T18	#3 Screw	0.6 (15.9)	0.6 (15.9)	0.1 (3.3)	PA66	White	100
MB2.510M4*		T18	#3 Screw	0.6 (15.9)	0.6 (15.9)	0.1 (3.3)	PA66	White	1000
MB2.50C2*		T18	#3 Screw	0.6 (15.9)	0.6 (15.9)	0.1 (3.3)	PA66	Black	100
151-01169	MCMB3	MCT18 - MCT30	#4 Screw	0.8 (19.0)	0.8 (19.0)	0.2 (3.8)	PA66MP	Blue	100
MB310C2*	MB3	T18 - T30	#4 Screw	0.8 (19.0)	0.8 (19.0)	0.2 (3.8)	PA66	White	100
MB310M4*		T18 - T30	#4 Screw	0.8 (19.0)	0.8 (19.0)	0.2 (3.8)	PA66	White	1000
MB30C2*		T18 - T30	#4 Screw	0.8 (19.0)	0.8 (19.0)	0.2 (3.8)	PA66	Black	100
MB30M4*		T18 - T30	#4 Screw	0.8 (19.0)	0.8 (19.0)	0.2 (3.8)	PA66	Black	1000
MB4SH10C2*	MB4SH	T18 - T50	#6 Screw	1.1 (28.3)	1.1 (28.3)	0.2 (5.1)	PA66	White	100
MB4SH10H4*		T18 - T50	#6 Screw	1.1 (28.3)	1.1 (28.3)	0.2 (5.1)	PA66	White	500
151-01170	MCMB4	MCT18 - MCT50	#8 Screw	1.1 (28.0)	1.1 (28.0)	0.2 (4.7)	PA66MP	Blue	100
MB410C2*	MB4	T18 - 50	#8 Screw	1.1 (28.5)	1.1 (28.5)	0.2 (4.8)	PA66	White	100
MB410H4*		T18 - 50	#8 Screw	1.1 (28.5)	1.1 (28.5)	0.2 (4.8)	PA66	White	500
MB40C2*		T18 - 50	#8 Screw	1.1 (28.5)	1.1 (28.5)	0.2 (4.8)	PA66	Black	100
MB40H4*		T18 - 50	#8 Screw	1.1 (28.5)	1.1 (28.5)	0.2 (4.8)	PA66	Black	500
MB510C2*	MB5	T18 - T150	#8 Screw	1.5 (37.7)	1.5 (37.7)	0.3 (6.2)	PA66	White	100
MB510F4*		T18 - T150	#8 Screw	1.5 (37.7)	1.5 (37.7)	0.3 (6.2)	PA66	White	250
MB50C2*		T18 - T150	#8 Screw	1.5 (37.7)	1.5 (37.7)	0.3 (6.2)	PA66	Black	100
MB50F4*		T18 - T150	#8 Screw	1.5 (37.7)	1.5 (37.7)	0.3 (6.2)	PA66	Black	250

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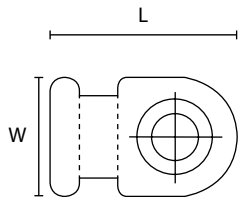
### Screw Mounting Bases

#### Low-Profile Cable Tie Mounts

These cable tie mounts are compact in size. They are designed for simple yet robust installation particularly in areas with limited space. They pair with a cable tie for mounting applications including telecom equipment, switchgear and control cabinets.

#### Features and Benefits

- Compact size for areas with limited mounting space.
- Simple to install with a screw or rivet.
- Single hole attachment with two-way entry for cable tie.



PART NO.	TYPE	Cable Tie Series	Mounting Screw Type	Length (L) in. (mm)	Width (W) in. (mm)	Height in. (mm)	Material	Color	Pkg. Qty.
MB19C2	MB1	T18	#8 (M4) Screw	0.5 (12.7)	0.3 (7.9)	0.1 (3.3)	PA66	Natural	100
MB19M4		T18	#8 (M4) Screw	0.5 (12.7)	0.3 (7.9)	0.1 (3.3)	PA66	Natural	1000
MB10C2		T18	#8 (M4) Screw	0.5 (12.7)	0.3 (7.9)	0.1 (3.3)	PA66	Black	100
MB10M4		T18	#8 (M4) Screw	0.5 (12.7)	0.3 (7.9)	0.1 (3.3)	PA66	Black	1000
MB29C2	MB2	T18 - T50	#8 (M4) Screw	0.8 (20.6)	0.5 (12.5)	0.1 (3.3)	PA66	Natural	100
MB29M4		T18 - T50	#8 (M4) Screw	0.8 (20.6)	0.5 (12.5)	0.1 (3.3)	PA66	Natural	1000

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# Bundling and Securing

## Cable Tie Mounts

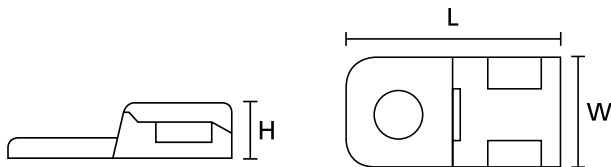
### Screw Mounting Bases

#### Cable Tie Anchor Mounts

Anchor Mounts for cable ties are suitable for applications with minimal space. Anchors are mounted onto the equipment prior to cable installation and take up no more space than the cable itself. Choose between a four-way entry design that can be used either 'in line' or at 90 degrees to the cable run.

#### Features and Benefits

- Suitable for applications with minimal space.
- CTAM has 4-way entry design for use in line or at 90° angle to cable run.
- CTAM mounts are available in different sizes and materials.



PART NO.	TYPE	Cable Tie Series	Mounting Screw Type	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
CTAM110C2*	CTAM1	T18 - T50	#8 (M4) Screw	0.8 (20.4)	0.4 (10.2)	0.2 (5.1)	PA66	White	100
CTAM10C2*		T18 - T50	#8 (M4) Screw	0.8 (20.4)	0.4 (10.2)	0.2 (5.1)	PA66	Black	100
CTAM10M4*		T18 - T50	#8 (M4) Screw	0.8 (20.4)	0.4 (10.2)	0.2 (5.1)	PA66	Black	1000
CTAM110M4*		T18 - T50	#8 (M4) Screw	0.8 (20.4)	0.4 (10.2)	0.2 (5.1)	PA66	White	1000
151-00757		T18 - T50	#8 (M4) Screw	0.8 (20.5)	0.4 (10.2)	0.2 (5.5)	PEEK	Beige	100
CTAM20C2*	CTAM2	T18 - T50	#10 (M5) Screw	0.8 (20.4)	0.4 (10.2)	0.2 (5.1)	PA66	Black	100
CTAM20M4*		T18 - T50	#10 (M5) Screw	0.8 (20.4)	0.4 (10.2)	0.2 (5.1)	PA66	Black	1000
CTAM210C2*		T18 - T50	#10 (M5) Screw	0.8 (20.4)	0.4 (10.2)	0.2 (5.1)	PA66	White	100
CTAM210M4*		T18 - T50	#10 (M5) Screw	0.8 (20.4)	0.4 (10.2)	0.2 (5.1)	PA66	White	1000
151-00758		T18 - T50	#10 (M5) Screw	0.8 (20.5)	0.4 (10.2)	0.2 (5.5)	PEEK	Beige	100
151-00997	MCCTAM1	MCT18 - MCT50	#8 (M4) Screw	0.8 (20.7)	0.4 (10.3)	0.2 (5.1)	PA66MP+	Blue	100

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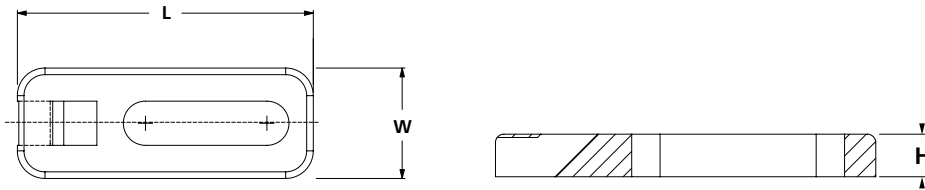
### Screw Mounting Bases

#### Cable Tie Anchor Plates

HellermannTyton Cable Tie Anchor Plates are designed as a "stand-off" mount for perpendicular wire bundles. These mounts offer an elongated mounting hole for easier alignment of wire bundles. The mounts are installed quickly and easily by securing a single screw.

#### Features and Benefits

- Mount provides a "stand-off" for perpendicular bundles.
- Secures with a single screw providing quick installation.



PART NO.	TYPE	Cable Tie Series	Mounting Screw Type	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
CTAP110C2*	CTAP1	T18 - T50	#10 (M5) Screw	1.3 (34.0)	0.5 (12.7)	0.2 (3.8)	PA66	White	100
CTAP110M4*		T18 - T50	#10 (M5) Screw	1.3 (34.0)	0.5 (12.7)	0.2 (3.8)	PA66	White	1000
CTAP10C2*		T18 - T50	#10 (M5) Screw	1.3 (34.0)	0.5 (12.7)	0.2 (3.8)	PA66	Black	100
CTAP10M4*		T18 - T50	#10 (M5) Screw	1.3 (34.0)	0.5 (12.7)	0.2 (3.8)	PA66	Black	1000
CTAP210C2*	CTAP2	T18 - T50	#10 (M5) Screw	2.1 (54.1)	0.5 (12.7)	0.1 (3.5)	PA66	White	100

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# Bundling and Securing

## Cable Tie Mounts

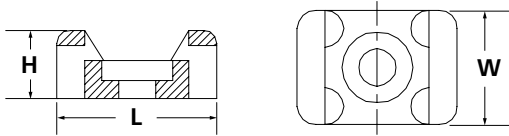
### Screw Mounting Bases

#### Cable Tie Mounts

Designed specifically for holding heavier cable bundles these mounting bases can be used in many industries from agriculture to truck manufacture. They offer a very secure fixing and can be used with a wide variety of heavy duty cable ties up to 8.3 mm width.

#### Features and Benefits

- 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.



PART NO.	TYPE	Cable Tie Series	Mounting Screw Type	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
CTM010M4*	CTM0	T18 - T50	#6 (M3) Screw	0.6 (14.7)	0.4 (9.4)	0.3 (6.9)	PA66	White	1000
CTM00C2*		T18 - T50	#6 (M3) Screw	0.6 (14.7)	0.4 (9.4)	0.3 (6.9)	PA66	Black	100
CTM00M4*		T18 - T50	#6 (M3) Screw	0.6 (14.7)	0.4 (9.4)	0.3 (6.9)	PA66	Black	1000
CTM010C2*		T18 - T50	#6 (M3) Screw	0.6 (14.7)	0.4 (9.4)	0.3 (6.9)	PA66	White	100
CTM10C2*	CTM1	T18 - T50	#8 (M4) Screw	0.6 (14.7)	0.4 (9.4)	0.3 (6.9)	PA66	Black	100
CTM10M4*		T18 - T50	#8 (M4) Screw	0.6 (14.7)	0.4 (9.4)	0.3 (6.9)	PA66	Black	1000
CTM110C2*		T18 - T50	#8 (M4) Screw	0.6 (14.7)	0.4 (9.4)	0.3 (6.9)	PA66	White	100
CTM110M4*		T18 - T50	#8 (M4) Screw	0.6 (14.7)	0.4 (9.4)	0.3 (6.9)	PA66	White	1000
CTM20C2*	CTM2	T18 - T120	#8 (M4) Screw	0.9 (21.8)	0.6 (15.5)	0.4 (9.4)	PA66	Black	100
CTM20M4*		T18 - T120	#8 (M4) Screw	0.9 (21.8)	0.6 (15.5)	0.4 (9.4)	PA66	Black	1000
CTM210C2*		T18 - T120	#8 (M4) Screw	0.9 (21.8)	0.6 (15.5)	0.4 (9.4)	PA66	White	100
CTM210M4*		T18 - T120	#8 (M4) Screw	0.9 (21.8)	0.6 (15.5)	0.4 (9.4)	PA66	White	1000

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### Screw Mounting Bases

#### Cable Tie Mounts

PART NO.	TYPE	Cable Tie Series	Mounting Screw Type	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
CTM30C2*	CTM3	T18 - T120	#10 (M5) Screw	0.9 (21.8)	0.6 (15.5)	0.4 (9.4)	PA66	Black	100
CTM30M4*		T18 - T120	#10 (M5) Screw	0.9 (21.8)	0.6 (15.5)	0.4 (9.4)	PA66	Black	1000
CTM310C2*		T18 - T120	#10 (M5) Screw	0.9 (21.8)	0.6 (15.5)	0.4 (9.4)	PA66	White	100
CTM310M4*		T18 - T120	#10 (M5) Screw	0.9 (21.8)	0.6 (15.5)	0.4 (9.4)	PA66	White	1000
CTM40C2*	CTM4	T18 - T120	1/4" (M6) Screw	0.9 (21.8)	0.6 (15.8)	0.4 (9.4)	PA66	Black	100
CTM40M4*		T18 - T120	1/4" (M6) Screw	0.9 (21.8)	0.6 (15.8)	0.4 (9.4)	PA66	Black	1000
CTM410C2*		T18 - T120	1/4" (M6) Screw	0.9 (21.8)	0.6 (15.8)	0.4 (9.4)	PA66	White	100
CTM410M4*		T18 - T120	1/4" (M6) Screw	0.9 (21.8)	0.6 (15.8)	0.4 (9.4)	PA66	White	1000
151-00950	MCKR6G5	MCTS series	M4	0.7 (17.8)	0.5 (11.8)	0.4 (8.8)	PA66MP+	Blue	100
151-01020	MCKR8G5-5	MCTS series	M5	1.0 (24.8)	0.4 (14.3)	0.5 (12.0)	PA66MP+	Blue	100

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# Bundling and Securing

## Cable Tie Mounts

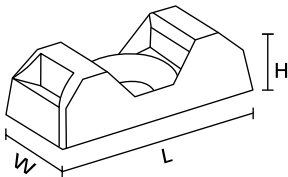
### Screw Mounting Bases

#### Q-Series Screw Mounting Bases

Q-Series mounting bases are designed to work exclusively with the Q-Tie® cable tie series. This mounting component can be secured with screws. The Q-Mount allows either a two- or four-way entry for the Q-Tie, providing a quick and simple insertion into the mount. Once in place, the Q-Tie will not slip out, even in vertical mounting applications.

#### Features and Benefits

- 2- or 4-way entry options for the Q-Tie, offering flexibility and stability
- Designed for use with 18- through 120-pound cable ties to provide stability when securing bundles.
- Secures with a single screw, providing quick installation.



PART NO.	TYPE	Mounting Screw Type	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
151-10901*	QM20	#5 (M3) Screw	0.8 (20.0)	0.8 (20.0)	0.1 (3.7)	PA66	Natural	100
151-10911*		#5 (M3) Screw	0.8 (20.0)	0.8 (20.0)	0.1 (3.7)	PA66	Black	100
151-10920*	CTQM5	#8 (M4) Screw	0.8 (21.0)	0.4 (9.5)	0.3 (6.7)	PA66	Natural	100
151-10930*		#8 (M4) Screw	0.8 (21.0)	0.4 (9.5)	0.3 (6.7)	PA66	Black	100
151-10902	QM30	#8 (M4) Screw	1.2 (30.0)	1.2 (30.0)	0.2 (4.5)	PA66	Natural	100
151-10912		#8 (M4) Screw	1.2 (30.0)	1.2 (30.0)	0.2 (4.5)	PA66	Black	100
151-10903	QM40	#8 (M4) Screw	1.6 (40.0)	1.6 (40.0)	0.2 (5.5)	PA66	Natural	50
151-10913		#8 (M4) Screw	1.6 (40.0)	1.6 (40.0)	0.2 (5.5)	PA66	Black	50

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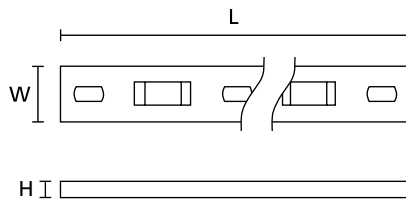
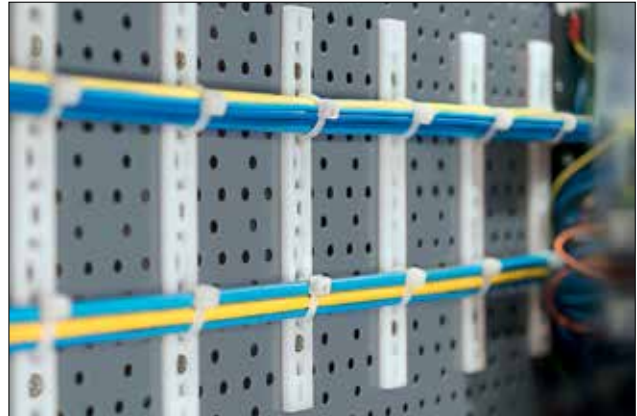
### Mounting Plates

#### Cable Tie Mounting Plates

Mounting Plates allow multiple cables to be run in parallel. Mounts are secured with two screws. Cables are attached to the plates by running a cable tie through any of the available slots.

#### Features and Benefits

- Mounting plates allow multiple bundles to run parallel.
- The mounts are secured using two screws, while the bundles are attached using cable ties in any of the available slots.



PART NO.	TYPE	Cable Tie Series	Mounting Screw Type	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
MP1M5.NN3P	MP1M5	T18 - T50	#10 (M5) Screw	1.8 (44.4)	0.5 (12.7)	0.1 (3.2)	PA66	Natural	100
MP1M3.NN3P	MP1M3	T18 - T50	#6 (M3) Screw	1.8 (44.4)	0.5 (12.7)	0.1 (3.2)	PA66	Natural	100
MP2M3.NN3P	MP2M3	T18 - T50	#6 (M3) Screw	3.0 (76.2)	0.5 (12.7)	0.1 (3.2)	PA66	Natural	100
MP2M5.NN3P	MP2M5	T18 - T50	#10 (M5) Screw	3.0 (76.2)	0.5 (12.7)	0.1 (3.2)	PA66	Natural	100
MP3M3.NN3P	MP3M3	T18 - T50	#6 (M3) Screw	4.3 (108.0)	0.5 (12.7)	0.1 (3.2)	PA66	Natural	100
MP3M5.NN3P	MP3M5	T18 - T50	#10 (M5) Screw	4.3 (108.0)	0.5 (12.7)	0.1 (3.2)	PA66	Natural	100
MP4M3.NN3P	MP4M3	T18 - T50	#6 (M3) Screw	5.5 (139.8)	0.5 (12.7)	0.1 (3.2)	PA66	Natural	100
MP4M5.NN3P	MP4M5	T18 - T50	#10 (M5) Screw	5.5 (139.8)	0.5 (12.7)	0.1 (3.2)	PA66	Natural	100
MP5M3.NN3P	MP5M3	T18 - T50	#6 (M3) Screw	6.8 (171.6)	0.5 (12.7)	0.1 (3.2)	PA66	Natural	100
MP5M5.NN3P	MP5M5	T18 - T50	#10 (M5) Screw	6.8 (171.6)	0.5 (12.7)	0.1 (3.2)	PA66	Natural	100
MSMP6-109C2*	MSMP6/10	T18 - T120	#10 (M5) Screw	9.5 (241.0)	0.6 (15.8)	0.2 (5.3)	PA66	Natural	100
MSMP6-69C2*	MSMP6/6	T18 - T120	#6 (M3) Screw	9.6 (244.0)	0.6 (15.8)	0.2 (5.3)	PA66	Natural	100

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# Bundling and Securing

## Cable Tie Mounts

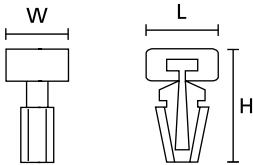
### Push Mounts

#### TM Series Push Mounts

HellermannTyton Push Mounts are used with our standard cable ties and offer a permanent bundling solution for quick installation by pushing the mount through a pre-drilled hole. The low profile head is suitable in space constrained areas.

#### Features and Benefits

- Push Mounts, when used with standard cable ties, provide a permanent bundling solution.
- The low profile style head is ideal for space constrained areas and is easily inserted through a pre-drilled hole.



PART NO.	TYPE	Cable Tie Series	Mounting Hole Dia. in. (mm)	Max. Panel Thickness in. (mm)	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
TM1SF0C2*	TM1SF	T18 - T50	0.3 (6.4)	0.1 (3.3)	0.6 (15.8)	0.4 (10.2)	0.2 (4.6)	PA66	Black	100
TM1SF0M4*		T18 - T50	0.3 (6.4)	0.1 (3.3)	0.6 (15.8)	0.4 (10.2)	0.2 (4.6)	PA66	Black	1000
TM1SF9M4*		T18 - T50	0.3 (6.4)	0.1 (3.3)	0.6 (15.8)	0.4 (10.2)	0.2 (4.6)	PA66	Natural	1000
TM1SF10C2*		T18 - T50	0.3 (6.4)	0.1 (3.4)	0.6 (15.8)	0.4 (10.2)	0.2 (4.6)	PA66	White	100
TM1SF10M4*		T18 - T50	0.3 (6.4)	0.1 (3.3)	0.6 (15.8)	0.4 (10.2)	0.2 (4.6)	PA66	White	1000

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

\*This product meets UL standards. Please see appendix for specific file numbers.

EN 45545-2



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

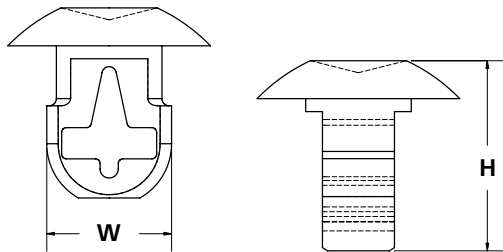
### Push Mounts

#### Push Button Mounts

HellermannTyton Push Mounts are used with our standard cable ties and offer a permanent bundling solution for installation below or underneath a panel. Designed for simple installation by pushing the mount through a pre-drilled hole. The low profile "button" style head is suitable in space constrained areas.

#### Features and Benefits

- Push Mounts, when used with standard cable ties, provide a permanent bundling solution below a panel.
- The "button" style head is ideal for space constrained areas and is easily inserted through a pre-drilled hole.



PART NO.	TYPE	Cable Tie Series	Mounting Hole Dia. in. (mm)	Max. Panel Thickness in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
PBM0C2*	PBM	T18 - T50	0.3 - 0.3 (6.3 - 6.6)	0.1 (3.0)	0.3 (6.6)	0.4 (10.2)	PA66	Black	100
PBM0M4*		T18 - T50	0.3 - 0.3 (6.3 - 6.6)	0.1 (3.0)	0.3 (6.6)	0.4 (10.2)	PA66	Black	1000
PBM9C2*		T18 - T50	0.3 - 0.3 (6.3 - 6.6)	0.1 (3.0)	0.3 (6.6)	0.4 (10.2)	PA66	Natural	100
PBM9M4*		T18 - T50	0.3 - 0.3 (6.3 - 6.6)	0.1 (3.0)	0.3 (6.6)	0.4 (10.2)	PA66	Natural	1000
PBM10C2*		T18 - T50	0.3 - 0.3 (6.3 - 6.6)	0.1 (3.0)	0.3 (6.6)	0.4 (10.2)	PA66	White	100
PBM10M4*		T18 - T50	0.3 - 0.3 (6.3 - 6.6)	0.1 (3.0)	0.3 (6.6)	0.4 (10.2)	PA66	White	1000

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 \*This product meets UL standards. Please see appendix for specific file numbers.



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# Bundling and Securing

## Cable Tie Mounts

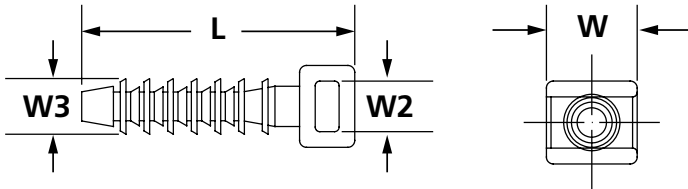
### Masonry Mounts

#### MMB Series

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

#### Features and Benefits

- Masonry Mounts provide a permanent solution when fastening wire and cables to masonry surfaces.
- The mounts have easy installation into predrilled holes allowing for faster use.



PART NO.	TYPE	Cable Tie Series	Mounting Hole Dia. in. (mm)	Hole Depth Min. in. (mm)	Length (L) in. (mm)	Width (W) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Material	Color	Pkg. Qty.
MMB00C2	MMB0	T18 - T50	0.2 (4.7)	1.0 (25.4)	1.2 (30.1)	0.4 (9.0)	0.2 (5.5)	0.2 (6.0)	PA46	Black	100
MMB.50C2	MMB.5	T18 - T50	0.3 (6.4)	1.0 (25.4)	1.2 (31.5)	0.4 (9.5)	0.2 (5.6)	0.3 (7.8)	PA46	Black	100
MMB.50M4		T18 - T50	0.3 (6.4)	1.0 (25.4)	1.2 (31.5)	0.4 (9.5)	0.2 (5.6)	0.3 (7.8)	PA46	Black	1000
MMB10C2	MMB1	T18 - T50	0.3 (8.0)	1.5 (38.1)	1.7 (43.5)	0.5 (12.9)	0.4 (9.5)	0.4 (9.2)	PA46	Black	100
MMB10H4		T18 - T50	0.3 (8.0)	1.5 (38.1)	1.7 (43.5)	0.5 (12.9)	0.4 (9.5)	0.4 (9.2)	PA46	Black	500

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

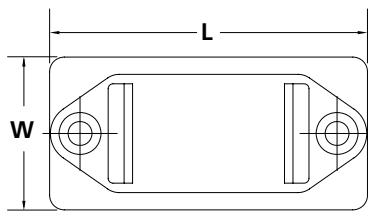
### Grip Tie Mounts

#### Hook-and-Loop Series

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

#### Features and Benefits

- Adhesive or nonadhesive with 1/4" screw hole mount secures .75" grip ties for use on flat surfaces.



PART NO.	TYPE	Description	Bolt Size in. (mm)	Adhesive	Length (L) in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
GTM500C2	GTM50	For use with .5" wide grip tie	1/4" (M6) Screw	-	2.5 (63.5)	1.0 (25.4)	PA66UV	Black	100
GTM50A0C2	GTM50A	For use with .5" wide grip tie	1/4" (M6) Screw	Urethane foam	2.5 (63.5)	1.0 (25.4)	PA66UV	Black	100
GTM1000C2	GTM100	For use with .75" wide grip tie	1/4" (M6) Screw	-	3.3 (82.6)	1.5 (38.1)	PA66UV	Black	100
GTM100A0C2	GTM100A	For use with .75" wide grip tie	1/4" (M6) Screw	Urethane foam	3.3 (82.6)	1.5 (38.1)	PA66UV	Black	100

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

# Bundling and Securing

## Heavy Duty Cable Tie Mounts

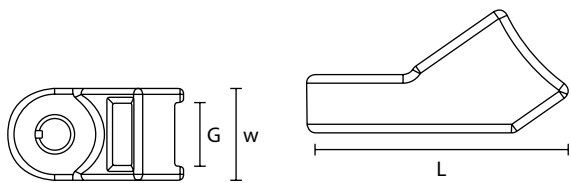
### Mounts Secured with Mechanical Fasteners - Single Bundles

#### Heavy Duty Mounts - Standard Torque

These mounts contain a small tab inside the mounting hole to temporarily engage the threads, which allows assemblers to preinstall the mount on a stud before securing with a washer and a nut. For use with HellermannTyton heavy duty T120, T250, T255 and Wide Strap Cable Ties.

#### Features and Benefits

- Mount and tie combination makes it easy to service bundles in the field.
- Made from impact modified, heat stabilized, UV resistant material, ideal for heavy duty environments.
- Eliminates the needs for multiple sized fix diameter clamps.



PART NO.	TYPE	Cable Tie Width Max. (G) in. (mm)	Mounting Screw Type	Max. Torque lbf-ft. (kgf-cm)	Length (L) in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
HDM190HIRC2	HDM19	0.5 (12.7)	#10 (M5) Screw	9.6 (132.5)	1.4 (36.3)	0.8 (19.3)	PA66HIRHSUV	Black	100
HDM190HIRH4		0.5 (12.7)	#10 (M5) Screw	9.6 (132.5)	1.4 (36.3)	0.8 (19.3)	PA66HIRHSUV	Black	500
HDM250HIRC2	HDM25	0.5 (12.7)	1/4" (M6) Screw	9.6 (132.5)	1.4 (36.3)	0.8 (19.3)	PA66HIRHSUV	Black	100
HDM250HIRH4		0.5 (12.7)	1/4" (M6) Screw	9.6 (132.5)	1.4 (36.3)	0.8 (19.3)	PA66HIRHSUV	Black	500
HDM3120HIRC2	HDM312	0.5 (12.7)	5/16" (M8) Screw	9.6 (132.5)	1.4 (36.3)	0.8 (19.3)	PA66HIRHSUV	Black	100
HDM3120HIRH4		0.5 (12.7)	5/16" (M8) Screw	9.6 (132.5)	1.4 (36.3)	0.8 (19.3)	PA66HIRHSUV	Black	500

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

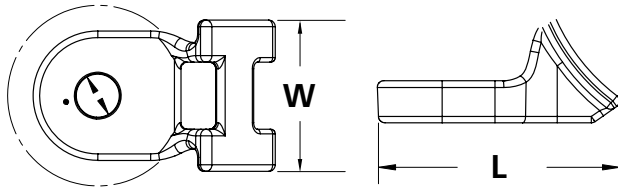
### Mounts Secured with Mechanical Fasteners - Single Bundles

#### Heavy Duty Mounts - Medium Torque

The arched H-profile of the saddle surface allows for a broad surface contact with the bundle, minimizing pinching and crushing of the bundles, and adjusts to a wide variety of bundle diameters when used with HellermannTyton heavy duty T120, T250, T255 and Wide Strap Cable Ties.

#### Features and Benefits

- Mount and tie combination makes it easy to service bundles in the field.
- Made from impact modified, heat stabilized, UV resistant material, ideal for heavy duty environments.
- Eliminates the need for multiple size fixed-diameter clamps.



PART NO.	TYPE	Cable Tie Width Max. (G) in. (mm)	Mounting Screw Type	Max. Torque lbf-ft. (kgf-cm)	Length (L) in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
HDM321HIHSUVH4	HDM321	0.5 (12.7)	5/16" (M8) Screw	40.0 (553.0)	1.8 (46.0)	1.0 (24.0)	PA66HIRHSUV	Black	500
HDM401HIHSUVH4	HDM401	0.5 (12.7)	3/8" (M10) Screw	40.0 (553.0)	1.8 (46.0)	1.0 (24.0)	PA66HIRHSUV	Black	500
HDM501HIHSUVH4	HDM501	0.5 (12.7)	1/2" (M12) Screw	40.0 (553.0)	1.8 (46.0)	1.0 (24.0)	PA66HIRHSUV	Black	500

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

# Bundling and Securing

## Heavy Duty Cable Tie Mounts

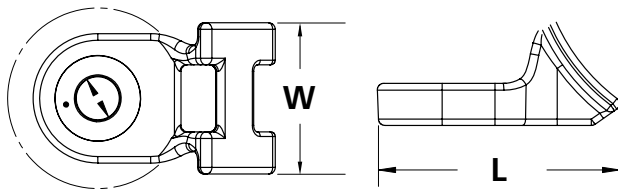
### Mounts Secured with Mechanical Fasteners - Single Bundles

#### Heavy Duty Mounts - High Torque

The high-torque mount is designed for use with power-assisted impact wrenches and is molded with a heavy bushing to withstand the forces required to tighten grade 8 bolts. The arched H-profile of the saddle surface allows for a broad surface contact with the bundle, minimizing pinching and crushing of the bundles, and adjusts to a wide variety of bundle diameters when used with HellermannTyton heavy duty T120, T250, T255 and Wide Strap Cable Ties.

#### Features and Benefits

- Mount and tie combination makes it easy to service bundles in the field.
- Made from impact modified, heat stabilized, UV resistant material, ideal for heavy duty environments.
- Eliminates the need for multiple size fixed-diameter clamps.



PART NO.	TYPE	Cable Tie Width Max. (G) in. (mm)	Mounting Screw Type	Max. Torque lbf-ft. (kgf-cm)	Length (L) in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
151-02098	HDM320	0.5 (12.7)	5/16" (M8) Screw	114.0 (1,576.0)	1.9 (47.0)	1.0 (25.0)	PA66HIRHSUV	Black	100
151-02094		0.5 (12.7)	5/16" (M8) Screw	114.0 (1,576.0)	1.9 (47.0)	1.0 (25.0)	PA66HIRHSUV	Black	500
151-02097	HDM500	0.5 (12.7)	1/2" (M12) Screw	114.0 (1,576.0)	1.9 (47.0)	1.0 (25.0)	PA66HIRHSUV	Black	100
151-02096		0.5 (12.7)	1/2" (M12) Screw	114.0 (1,576.0)	1.9 (47.0)	1.0 (25.0)	PA66HIRHSUV	Black	500

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



### Mounts Secured with Mechanical Fasteners - Single Bundles

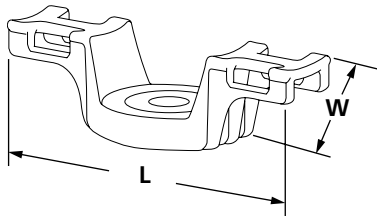
#### High Torque Double Mounts

High Torque Double Mounts are designed for use with power assisted impact wrenches and are molded with a metal bushing to withstand the forces required to tighten grade 8 bolts. Mounts are designed for routing multiple bundles with HellermannTyton heavy duty T250, T255, and wide strap cable ties to harness wires and hoses. The bundle is secured directly over the mounting fastener. The arched saddle surface allows for a broad surface contact with the bundle, minimizing pinching and crushing of the bundles. Mounts accept all standard cable ties up to .5" wide.



#### Features and Benefits

- Arched H-profile surface allows for broad surface contact with the bundle, minimizing pinching and crushing of the bundles.
- High torque metal bushing allows for strength in heavy duty applications.
- These mounts contain a small tab inside the mounting hole to temporarily engage the threads which allows assemblers to pre-install the mount on a stud with a washer and nut.



PART NO.	TYPE	Cable Tie Width Max. (G) in. (mm)	Mounting Screw Type	Length (L) in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
151-02104	HDM375BDM4W	0.5 (12.7)	3/8" (M10) Screw	3.5 (89.0)	1.4 (35.6)	PA66HIRHSUV	Black	100

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

# Bundling and Securing

## Heavy Duty Cable Tie Mounts

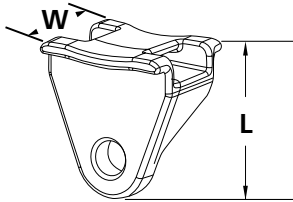
### Mounts Secured with Mechanical Fasteners - Single Bundles

#### Axial Oval Mounts

HellermannTyton Axial Oval Mounts stand-off bundles from frame rails and cross members to prevent them from rubbing and chafing. The axial oval mount accommodates HellermannTyton heavy duty T120, T250, T255 and Wide Strap Cable Ties. It is designed to fit a 5/16" bolt.

#### Features and Benefits

- Positions bundles off cross members and frame rails to prevent abrasion and chafing.
- Metal insert bushing accommodates high-torque installation.
- Made with high-impact, heat stabilized, and UV material ideal for trucking and heavy equipment environments.



PART NO.	TYPE	Cable Tie Width Max. in. (mm)	Mounting Screw Type	Length (L) in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
SAM83HIRHSH1	SAM83	0.5 (12.7)	5/16" (M8) Screw	1.4 (34.0)	1.0 (26.0)	PA66HIRHSUV	Gray	500
SAOM80HIRHSH1	SAOM8	0.5 (12.7)	5/16" (M8) Screw	1.4 (34.0)	1.0 (26.0)	PA66HIRHSUV	Black	500
SAOM820HIRHSH1	SAOM82	0.5 (12.7)	5/16" (M8) Screw	1.4 (34.0)	1.0 (26.0)	PA66HIRHSUV	Black	500

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

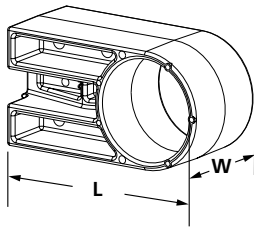
### Mounts Secured with Mechanical Fasteners - Single Bundle

#### Cable Guide Standoff

This cable guide standoff is designed for the use with HellermannTyton's button head ties. The cable guide standoff stands off bundles from frame rails, providing clearance from bolts and other protrusions for protection against abrasion. This mount also allows the flow-through of salt, dirt and other impurities from the road, preventing unwanted build-up on hoses and harnesses. This product perfectly secures convoluted tubing's up to 26mm in diameter.

#### Features and Benefits

- Tubes are fixed a defined distance from the substructure.
- Defined diameter for the wire entry.
- Retainer is fixed in the hole with BHT-tie.



PART NO.	TYPE	Length (L) in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
151-00006	CGS1	2.2 (56.6)	1.0 (25.4)	PA66HIRHSUV	Black	250
133-00285	CGS2	3.2 (82.0)	1.5 (38.1)	PA66HIRHS	Black	150

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

# Bundling and Securing

## Heavy Duty Cable Tie Mounts

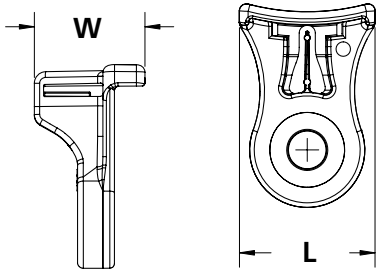
### Mounts Secured with Mechanical Fasteners - Single Bundles

#### Axial Mounts - High Torque

HellermannTyton Axial Mounts stand-off bundles from frame rails and cross members to prevent them from rubbing and chafing. The axial mount accommodates HellermannTyton heavy duty T120, T250, T255 and Wide Strap Cable Ties. It is designed to fit a 5/16" bolt.

#### Features and Benefits

- Positions bundles off cross members and frame rails to prevent abrasion and chafing.
- Metal insert bushing accommodates high-torque installation.
- Made with high-impact, heat stabilized, and UV material ideal for trucking and heavy equipment environments.



PART NO.	TYPE	Length (L) in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
151-02099	SAM320B	1.2 (29.9)	1.0 (25.0)	PA66HIRHSUV	Black	500
151-02102	SAM400B	1.2 (29.9)	1.0 (25.0)	PA66HIRHSUV	Black	500
151-02103	SAM500B	1.2 (29.9)	1.0 (25.0)	PA66HIRHSUV	Black	500

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

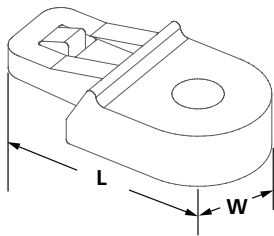
### Mounts Secured with Mechanical Fasteners - Single Bundle

#### Lashing Tie Mounts

The lashing tie mount is designed to snap into the T250 lashing tie. The tie head is assembled perpendicular to the mount. The strap is parallel to the mount when inserted into the head. The lashing tie mount is recommended for indoor or outdoor wall mount cable applications.

#### Features and Benefits

- The strap is parallel to the mount when inserted into the head, providing a fixed insertion point for the cable tie.



PART NO.	TYPE	Cable Tie Width Max. in. (mm)	Mounting Screw Type	Length (L) in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
LTM2500C2	LTM250	0.5 (12.5)	1/4" (M6) Screw	1.5 (37.1)	0.7 (18.5)	PA66HS	Black	100

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

# Bundling and Securing

## Heavy Duty Cable Tie Mounts

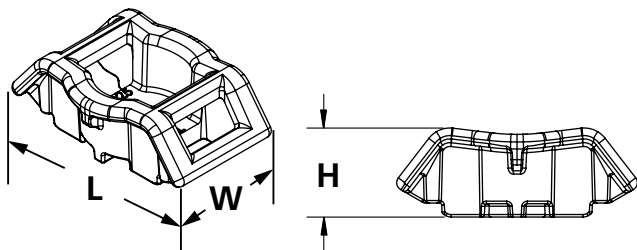
### Mounts Secured with Mechanical Fasteners - Multiple Bundles

#### Low Profile Mount

Low Profile Mounts secure bundles close to mounting surfaces, making them ideal for applications where bundle mounting space is limited. These are secured to the mounting surface with a .25" mechanical fastener and features a counter bore for easy access with a socket. The mount accommodates cable ties up to .5" in width. Single bundles can be positioned on top of the mount, or two bundles can be separated using the two side saddles.

#### Features and Benefits

- Separates bundles to help prevent chafing and wear.
- Single bundles can be mounted on top of the mount, or two bundles can be separated using the two side saddles; giving the mount versatility.
- Low profile design allows mount to be placed in areas where space is limited.



PART NO.	TYPE	Cable Tie Series	Mounting Screw Type	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
151-01122	LPM25	T50 - T250	1/4" (M6) Screw	1.8 (45.1)	1.0 (24.9)	0.7 (16.7)	PA66HIRHSUV	Black	500

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

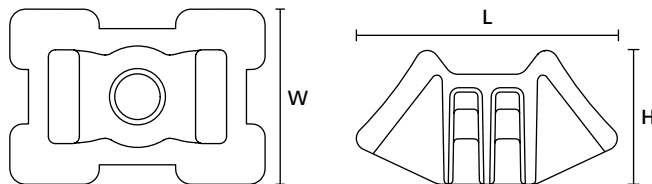
### Mounts Secured with Mechanical Fasteners - Multiple Bundles

#### Two Way Saddle Mounts

HellermannTyton's saddle mount can be installed between two bundles (such as wires, cables, hoses, tubing, conduit, etc.) to separate them and prevent chafing and wear. Fastened to a frame rail or mounting bracket, the H-profile on the saddle mount provides a tight circumferential loop on large and small bundles. Cable ties up to 1/2" wide are used to secure the bundles.

#### Features and Benefits

- Separates bundles from wear and chafing, providing additional longevity.
- Hexagonal retention feature (S2HM25) captures a bolt or nut requiring tool access from the back side only.
- A socket counterbore allows securing with a socket wrench from the top side for use with a weld stud or bolt (S2CM25.)
- Made from impact modified, heat stabilized, UV resistant material making it ideal for heavy duty applications.



PART NO.	TYPE	Cable Tie Series	Mounting Screw Type	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
S2CM258HIRHSH1	S2CM25	T50 - T250	1/4" (M6) Screw	1.8 (45.0)	1.2 (30.0)	0.9 (23.0)	PA66HIRHS	Gray	500
S2CM258HIRHSHK2		T50 - T250	1/4" (M6) Screw	1.8 (45.0)	1.2 (30.0)	0.9 (23.0)	PA66HIRHS	Gray	50
S2HM250HIRHSH1	S2HM25	T50 - T250	1/4" (M6) Screw	1.8 (45.0)	1.2 (30.0)	0.9 (23.0)	PA66HIRHSUV	Black	500
S2HM250HIRHSHK2		T50 - T250	1/4" (M6) Screw	1.8 (45.0)	1.2 (30.0)	0.9 (23.0)	PA66HIRHSUV	Black	50

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

# Bundling and Securing

## Heavy Duty Cable Tie Mounts

### Mounts Secured with Mechanical Fasteners - Multiple Bundles

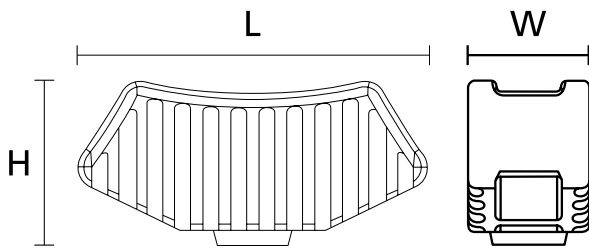
#### Saddle Mount for the Button Head Tie

HellermannTyton's saddle mounts are designed to be used with button head ties, the saddle mount stands off bundles from frame rails, providing clearance from bolts and other protrusions for protection against abrasion. This mount also allows the flow-through of salt, dirt, and other impurities from the road which prevent unwanted build-up on hoses and harnesses. 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 three 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.



#### Features and Benefits

- Secures up to three bundles for multiple routing.
- Provides parallel spacing between frame rail and adjacent bundles to reduce wear.
- Manufactured with a pilot bushing which prevent the cable tie from chafing against the burr edge of the mounting hole.



PART NO.	TYPE	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
MSBT1200HIRHSH1	MSBT120	1.9 (48.3)	0.7 (16.5)	0.8 (20.6)	PA66HIRHSUV	Black	500
MSBT1200HIRHSX2		1.9 (48.3)	0.7 (16.5)	0.8 (20.6)	PA66HIRHSUV	Black	25

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



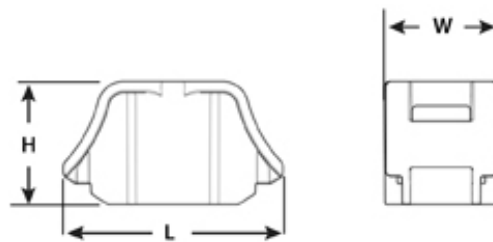
### Stud Bolt Mounts

#### H-Mount Series

HellermannTyton H-Mounts offer a secure bundling solution that utilizes existing frame rail bolts which reduces component costs and improves installation time. The H-mounts have three bundle mounting locations each accommodating ties up to 1/2" wide. H-Mounts fasten with three bolt sizes: 1/2", 5/8", and 3/4". The top tie slot allows the bundle to be positioned directly over the bolt. The two curved tie slots on the sides position the bundles adjacent to the bolt yet away from the frame.

#### Features and Benefits

- H-Mounts utilize existing frame rail bolts eliminating the need for additional fasteners.
- When used with cable ties, the H-Mounts eliminate the need to carry multiple sizes of fixed bundle diameter clamps which reduces inventory and purchasing costs.
- Top tie slot allows bundles to be positioned in up to three locations, to provide multiple use options.
- Side tie slots are curved to minimize bundle abrasion and position the bundles adjacent to the bolt yet away from the frame.



PART NO.	TYPE	Stud Dia. in. (mm)	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
151-00973	HM4	0.375 (9.5)	2.0 (50.0)	1.2 (29.8)	1.0 (24.3)	PA66HIRHSUV	Black	900
151-00812	HM5	0.50 (12.7)	2.0 (50.0)	1.0 (26.0)	1.1 (28.0)	PA66HIRHSUV	Black	900
151-00813	HM6	0.625 (15.9)	2.0 (50.0)	1.0 (26.0)	1.1 (28.0)	PA66HIRHSUV	Black	900
151-00814	HM7	0.75 (19.05)	2.0 (50.0)	1.0 (26.0)	1.1 (28.0)	PA66HIRHSUV	Black	900

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

### Stud Bolt Mounts

#### H-Mount Drill Bit

The H-Mount drill bit applies the H-mount series to studs. Bit fits all 1/4" drills.

#### Features and Benefits

- Applies easily to tool for quick and easy installation of H-Mounts.



PART NO.	TYPE	Material	Color	Pkg. Qty.
904-00284	HBIT	ST	Black	1

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

# Bundling and Securing

## Heavy Duty Cable Tie Mounts

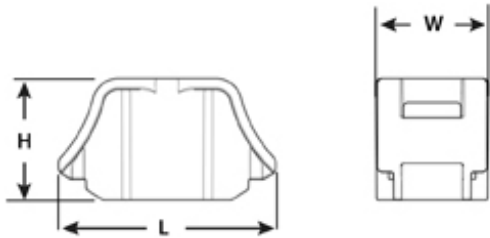
### Stud Bolt Mounts

#### H-Mount Series - Huckspin II Bolt Mounts

HellermannTyton H-Mounts offer a secure bundling solution that utilizes existing frame rail bolts, which reduces component costs and installation times. H-Mounts have three bundle mounting locations, each accommodating ties up to 1/2" wide. These H-Mounts fasten with two Huckspin II bolt sizes: 1/2" and 5/8". The top tie slot allows the bundle to be positioned directly over the bolt. The two curved tie slots on the sides position the bundles adjacent to the bolt yet away from the frame.

#### Features and Benefits

- H-Mounts utilize existing frame rail bolts eliminating the need for additional fasteners.
- When used with cable ties, the H-Mounts eliminate the need to carry multiple sizes of fixed bundle diameter clamps which reduces inventory and purchasing costs.



PART NO.	TYPE	Bolt Size in. (mm)	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
151-00975	HM5A	1/2 (12.7)	2.0 (50.0)	1.0 (26.0)	1.1 (28.0)	PA66HIRHSUV	Black	900
151-00976	HM6A	5/8 (15.9)	2.0 (50.0)	1.0 (26.0)	1.1 (28.0)	PA66HIRHSUV	Black	900

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

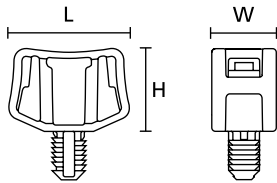
### Fir Tree Mounts

#### Fir Tree Saddle Mounts

The 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 up to four separate bundles, providing parallel spacing between the frame rail and adjacent bundles. Fir tree eliminates the need for mounting hardware. For use with HellermannTyton T50-T255 ties.

#### Features and Benefits

- Heavy duty fir tree mount requires low insertion force and high extraction force.
- Impact modified, heat stabilized, UV material makes it ideal for heavy-duty solutions.



PART NO.	TYPE	Mounting Hole Dia. in. (mm)	Panel Thickness in. (mm)	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
S3STM500HIRHSC2	S3STM50	0.5 (12.7 - 13.7)	0.1 - 0.5 (1.9 - 13.0)	2.0 (50.0)	0.9 (22.0)	1.4 (35.0)	PA66HIRHSUV	Black	100
S3STM500HIRHSF1		0.5 (12.7 - 13.7)	0.1 - 0.5 (1.9 - 13.0)	2.0 (50.0)	0.9 (22.0)	1.4 (35.0)	PA66HIRHSUV	Black	250

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

## Endless ways to bundle routings with a single solution? Go configure.

How many ways can you route hoses, pipes, harnesses and cables in automotive and electrical applications? The options are endless – and the varying diameters of bundles add to the complexity of creating a universal solution.

That's why we've developed hundreds of configurations for our open clips and locking clamps. And there's always room for one more.

**MADE FOR REAL** 

Learn what makes this innovative fastener different from the rest: [www.hellermann.tyton.com/MOCFamily](http://www.hellermann.tyton.com/MOCFamily)



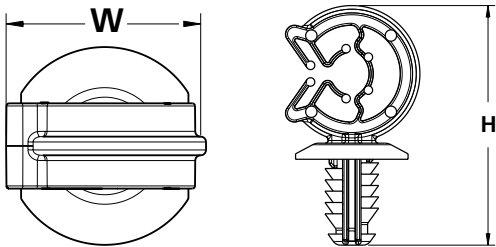
## C-Clips

### C-Clip with Fir Tree Mount

The C Clip with fir tree mount is ideal for panels with pre-drilled holes. Easy installation by hand eliminates the need for any tools. Once installed, the cable simply snaps into the clip. The cable can be removed and reinstalled without removing the clip. Made from PA66HIRHSUV material, the clip offers increased flexibility along with heat resistance and UV stability.

#### Features and Benefits

- Pre-drilled holes allows for easy installation by hand.
- Cable can be removed and reinstalled without removing the clip, providing multiple use options.
- Made of PA66HIRHSUV material for withstanding extreme conditions.



PART NO.	TYPE	Max. Bundle Diameter in. (mm)	Mounting Hole Dia. in. (mm)	Height (H) in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
151-00927	SC6.6	0.3 (7.6)	0.3 (6.6)	1.3 (33.4)	0.7 (18.3)	PA66HIRHSUV	Black	100

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

### Screw Mount Clips

#### Screw Mount Wire Retainer

HellermannTyton's screw mount wire retainer was designed for use in harness board assemblies. These wire retainers "stand-off" wire and cable bundles for easier cable tie application. Wires are individually inserted, and bundles are preformed, making harnessing easier. Can be used in conjunction with HellermannTyton's Auto Tool Systems.

#### Features and Benefits

- Screw mount wire retainer designed for use in harness board assemblies.
- The wire retainers provide a stand-off to the wire and cable bundles for easier cable tie application.
- Wires are individually inserted, and bundles are preformed, making harnessing easier.



PART NO.	TYPE	Max. Bundle Diameter in. (mm)	Mounting Hole Dia. in. (mm)	Height (H) in. (mm)	Width (W) in. (mm)	Length (L) in. (mm)	Material	Color	Pkg. Qty.
HH-20	HH20	0.8 (20.0)	0.2 (3.9)	2.1 (54.0)	1.2 (31.0)	4.0 (100.0)	PA66	Natural	25

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

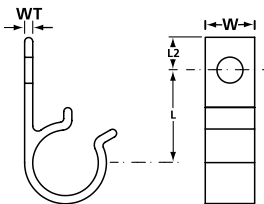
## Screw Mount Clips

### D-Clip Series

Developed for fixing pipes, cables and hoses, the D-Clips elastic locking system ensures optimal fixing and at the same time, easy removal of the fixed elements by simply pressing the lower latch down and pulling the fixed element.

### Features and Benefits

- Available in three sizes, HellermannTyton screw mount clips offer quick, snap-in action.
- These clips allow for easy release for wiring changes or replacements, saving both time and money.



PART NO.	TYPE	Max. Bundle Diameter in. (mm)	Mounting Hole Dia. in. (mm)	Wall Thickness (WT) in. (mm)	Width (W) in. (mm)	Length in. (mm)	Length (L2) in. (mm)	Material	Color	Pkg. Qty.
D10H4	8D10	0.4 (10.0)	0.3 (8.0)	0.1 (2.0)	0.6 (15.0)	0.7 (17.0)	0.3 (8.0)	POM	Black	500
D15L4	8D15	0.6 (15.0)	0.3 (8.0)	0.1 (2.0)	0.6 (15.0)	1.0 (25.0)	0.4 (10.0)	POM	Black	200
D20L4	8D20	0.8 (20.0)	0.3 (8.0)	0.1 (2.5)	0.6 (15.0)	1.1 (28.0)	0.4 (10.0)	POM	Black	200

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

# Bundling and Securing

## Clips

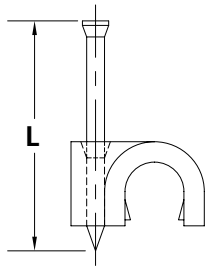
### Nail Clips

#### Nail Clips

HellermannTyton nail clips are easy to use and highly reliable. Tough, precision engineered Nail Clips hold wire and cable securely in place. The nail is made of hardened steel for driving into wood, masonry joints, cinder block, and mortar. The nail clips do not have sharp edges, which reduces the chance of cutting cable jackets or sheaths, causing signal loss. Available in white or black.

#### Features and Benefits

- Hardened steel nail allows easy installation into wood, masonry joints, cinder block and mortar.
- No sharp edges reduce risk of cutting cables or sheaths.



PART NO.	TYPE	Nominal Dia. in. (mm)	Description	Length (L) in. (mm)	Material	Color	Pkg. Qty.
FC140	FC14	1/2 (14.0)	RG59 and RG6 Flat twin and ground	1.0 (25.0)	PE, ST	Black	100
FC1410		1/2 (14.0)	RG59 and RG6 Flat twin and ground	1.0 (25.0)	PE, ST	White	100
NC70	NC7	1/4 (7.0)	RG6 and RG59 Double shielded	0.8 (20.0)	PE, ST	Black	100
NC710		1/4 (7.0)	RG6 and RG59 Double shielded	0.8 (20.0)	PE, ST	White	100
NC60	NC6	1/4 (6.0)	Telecom, 6 pair, RG59	0.6 (16.0)	PE, ST	Black	100
NC610		1/4 (6.0)	Telecom, 6 pair, RG59	0.6 (16.0)	PE, ST	White	100
NC3.50	NC3.5	1/8 (3.5)	14# Ground wire, telecom, 1 pair	0.6 (16.0)	PE, ST	Black	100
NC3.510		1/8 (3.5)	14# Ground wire, telecom, 1 pair	0.6 (16.0)	PE, ST	White	100
NC90	NC9	3/8 (9.0)	Telecom, 12 pair	0.8 (20.0)	PE, ST	Black	100
NC910		3/8 (9.0)	Telecom, 12 pair	0.8 (20.0)	PE, ST	White	100
NC50	NC5	3/16 (5.0)	Telecom, 4 pair	0.6 (16.0)	PE, ST	Black	100
NC510		3/16 (5.0)	Telecom, 4 pair	0.6 (16.0)	PE, ST	White	100
NC80	NC8	5/16 (8.0)	Telecom, 10 pair RG7 and RG6 double and quad shielded	0.8 (20.0)	PE, ST	Black	100
NC810		5/16 (8.0)	Telecom, 10 pair RG7 and RG6 double and quad shielded	0.8 (20.0)	PE, ST	White	100
NC110	NC11	7/16 (11.0)	Telecom, 25 pair	1.0 (25.0)	PE, ST	Black	100
NC1110		7/16 (11.0)	Telecom, 25 pair	1.0 (25.0)	PE, ST	White	100

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



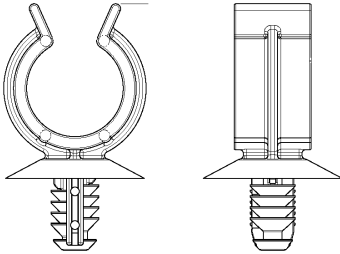
## Pipe and Hose Clips

### Fir Tree Mount Tube Clip

Designed to offer a durable single-hole mounting, this tube clip allows the installer to insert the fir tree with minimal force while providing a secure hold.

#### Features and Benefits

- Clip is designed for fixation and bundling of tubes and pipes.



PART NO.	TYPE	Max. Bundle Diameter in. (mm)	Mounting Hole Dia. in. (mm)	Min. Panel Thickness in. (mm)	Max. Panel Thickness in. (mm)	Height in. (mm)	Width in. (mm)	Material	Color	Pkg. Qty.
PC15FT7	PC15FT7	0.6 (15.7)	0.25 - 0.27 (6.4 - 6.8)	0.04 (1.0)	0.31 (6.0)	1.5 (38.1)	0.9 (21.6)	PA66HIRHSUV	Black	1000

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

# Bundling and Securing

## Self-Affixing Clips

### Bundling Clips

#### Straight Mini Channels

The mini channel family allows a cost effective routing solution that provides protection and configurable routing. Pieces are modular and interchangeable, providing high levels of customization. Mini channels replace engineered channels that are costly to design and develop.

#### Features and Benefits

- U-Shape channel that provides 3 sides of protection for wire or bundle.
- High-quality polypropylene material with high heat resistance.



PART NO.	TYPE	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.	Drawing
133-01476	MINICHNLU	2.0 (50.0)	1.2 (30.0)	0.3 (8.0)	PPT20	Black	3000	

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

### Bundling Clips

#### Angled Mini Channels

The mini channel family allows a cost effective routing solution that provides protection and configurable routing. Pieces are modular and interchangeable, providing high levels of customization. Mini channels replace engineered channels that are costly to design and develop.

#### Features and Benefits

- Angled channel allows specific guidance around corners or obstructions.
- U-Shape channel provides three sides of protection for wire or bundle.
- High-quality polypropylene material with high heat resistance.
- Protects against abrasion and other environmental factors.



PART NO.	TYPE	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Mounting Hole Dia. in. (mm)	Material	Color	Pkg. Qty.	Drawing
133-01480	45MINICHNL	2.1 (52.0)	1.1 (28.5)	0.1 (1.5)	-	PPT20	Black	4000	
133-01478	45MINICHNL2	3.5 (89.7)	1.9 (47.6)	0.1 (1.5)	0.25 - 0.26 (6.4 - 6.7)	PPT20	Black	900	
133-01479	90MINICHNL	1.5 (38.5)	1.5 (38.5)	0.1 (1.5)	-	PPT20	Black	3500	
133-01477	90MINICHNL2	2.5 (63.5)	2.5 (63.5)	0.1 (1.5)	0.25 - 0.26 (6.4 - 6.7)	PPT20	Black	1600	

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

# Bundling and Securing

## Self-Affixing Clips

### Bundling Clips

#### 90-Degree Fir Tree Mini Channels

HellermannTyton's Bundling Clips create a solution that allows the harness to be routed around a corner and fixated into the panel at this location.

#### Features and Benefits

- The 90-degree configuration of this mini channel creates a solution for routing a wire harness around a corner.
- Design allows the mini channel to be used with a wide range of panel thicknesses and hole diameters.



PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Panel Thickness in. (mm)	Mounting Hole Dia. in. (mm)	Material	Color	Pkg. Qty.	Drawing
151-00993	BC90FT6	0.4 (10.0)	1.0 (26.2)	0.02 – 0.23 (0.7 – 6.0)	0.2 - 0.3 (6.1 - 6.9)	PA66HIRHS	Black	2000	
151-01051	BC90FT6B	1.2 (30.5)	1.0 (24.5)	0.02 – 0.22 (0.6 – 5.5)	0.2 - 0.3 (6.1 - 6.9)	PA66HIRHS	Black	4000	

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

### Bundling Clips

#### 90-Degree Arrowhead Mini Channels

HellermannTyton's Bundling Clips create a solution that allows the harness to be routed around a corner, and fixated into the panel at this location.

#### Features and Benefits

- The 90-degree configuration of this mini channel creates a solution for routing a wire harness around a corner.



PART NO.	TYPE	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Panel Thickness in. (mm)	Mounting Hole Dia. in. (mm)	Material	Color	Pkg. Qty.	Drawing
151-01109	BC90AH2	1.2 (29.5)	0.4 (10.0)	0.9 (23.6)	0.04 – 0.06 (1.0 – 1.5)	0.2 (6.5)	PA66HIRHSUV	Black	4000	
151-00994	BC90AH	1.2 (29.5)	0.4 (10.0)	1.0 (24.0)	0.02 – 0.07 (0.5 – 1.8)	0.2 (6.5)	PA66HIRHSUV	Black	4000	

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

# Bundling and Securing

## Self-Affixing Clips

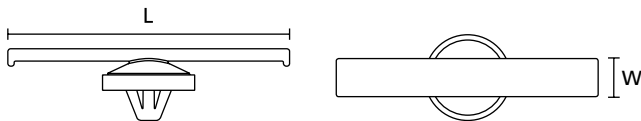
### Bundling Clips

#### Standard Bundling Clips

HellermannTyton Bundling Clips are designed to provide simple and easy methods for securing cable bundles, hoses, or pipes. They are fastened onto the tape bar using tape or cable ties.

#### Features and Benefits

- The different fixing orientations allow tape clips to be used with a wide range of panel thicknesses and hole diameters.

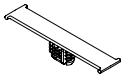
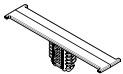
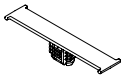
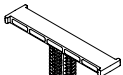


PART NO.	TYPE	Tape Bar Length (L) in. (mm)	Panel Thickness in. (mm)	Min. Mounting Hole Dia. in. (mm)	Max. Mounting Hole Dia. in. (mm)	Material	Color	Pkg. Qty.	Drawing
150-95500	TC5FT6S	1.5 (37.0)	0.03 – 0.06 (0.75 – 1.5)	0.26 (6.4)	0.28 (7.1)	PA66HIRHS	Black	1000	
102-69067	ATSBCKSFT6.5	1.5 (39.0)	0.03 – 0.05 (0.7 – 1.3)	0.25 (6.3)	0.26 (6.7)	PA66HIRHS	Black	500	
151-00651	TC6FT6LG	1.5 (39.3)	0.03 – 0.71 (0.7 – 18.0)	0.24 (6.8)	0.24 (6.2)	PA66HIRHS	Natural	2000	
151-00663	TC6FT6	1.5 (38.1)	0.03 – 0.71 (0.7 – 5.75)	0.24 (6.8)	0.27 (6.2)	PA66HIRHS	Black	10000	
151-01884	BCSFTOVAL2	1.5 (38.7)	0.02 – 0.10 (0.6 – 2.5)	0.24 (6.2)	0.51 (13.0)	PA66HIRHSUV	Natural	8000	
151-01240	BCFTOVAL2	1.5 (38.7)	0.02 – 0.24 (0.6 – 6.0)	0.24 (6.2)	0.51 (13.0)	PA66HIRHS	Natural	10000	
155-16301	WICKELCLIP-VDS	1.6 (40.0)	0.02 – 0.10 (0.6 – 2.5)	0.25 (6.3)	0.35 (9.0)	PA66HIRHS	Black	1000	
150-08110	CHA1	2.1 (54.0)	0.02 – 0.05 (0.5 – 1.2)	0.25 (6.3)	0.26 (7.0)	PA66HS	Black	500	
151-02901	CHA2	2.1 (54.0)	0.02 – 0.08 (0.8 – 2.0)	0.26 (6.5)	0.28 (7.0)	PA66	Black	500	
155-30802	TC2FT6LG	2.2 (55.0)	0.02 – 0.20 (0.6 – 5.1)	0.25 (6.3)	0.28 (7.0)	PA66HIRHS	Black	14000	
155-11601	BCSFT6.5 16-3MD	2.2 (55.0)	0.06 – 0.12 (1.5 – 3.0)	0.25 (6.3)	0.26 (6.7)	PA66HIRHS	Black	500	
151-00029	TCOP70x120	2.2 (55.0)	0.02 – 0.24 (0.6 – 6.0)	0.28 (7.0)	0.47 (12.0)	PA66HIRHS	Black	5000	

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

## Bundling Clips

### Standard Bundling Clips

PART NO.	TYPE	Tape Bar Length (L) in. (mm)	Panel Thickness in. (mm)	Min. Mounting Hole Dia. in. (mm)	Max. Mounting Hole Dia. in. (mm)	Material	Color	Pkg. Qty.	Drawing
151-01883	BCSFTOVAL	2.3 (58.0)	0.02 – 0.10 (0.6 – 2.5)	0.24 (6.2)	0.51 (13.0)	PA66HIRHSUV	Natural	8000	
151-01403	BCFTOVAL	2.3 (58.0)	0.02 – 0.24 (0.5 – 6.0)	0.24 (6.2)	0.51 (13.0)	PA66HIRHS	Black	8000	
151-01239		2.3 (58.0)	0.02 – 0.24 (0.6 – 6.0)	0.24 (6.2)	0.51 (13.0)	PA66HIRHS	Natural	8000	
151-01888	BCFTOVALXL	2.3 (58.0)	0.02 – 0.43 (0.6 – 11.0)	0.24 (6.2)	0.51 (13.0)	PA66HIRHSUV	Natural	3000	

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

# Bundling and Securing

## Self-Affixing Clips

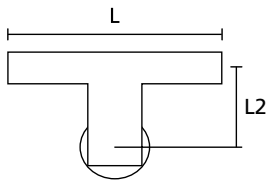
### Bundling Clips

#### Standoff Bundling Clips

Standoff bundling clips provide a straightforward way to secure cable bundles, hoses or pipes. The bundle fastens to the tape bar using tape or cable ties. Multiple orientations allow tape clips to be used with a wide range of panel thicknesses and hole diameters. Standoff keeps bundles away from mounting area to prevent them from damage due to rubbing.

#### Features and Benefits

- Clip can be installed by hand – no need for hardware or tools.
- Design provides low insertion and high extraction force, for simple, secure performance.
- Clip keeps bundle away from areas that could cause damage due to rubbing.



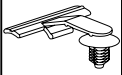
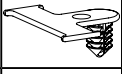
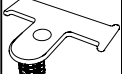
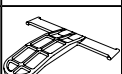
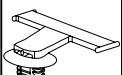
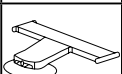
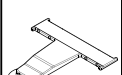
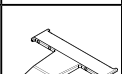
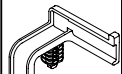
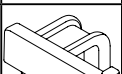
PART NO.	TYPE	Length (L) in. (mm)	Panel Thickness in. (mm)	Mounting Hole Dia. in.	Mounting Hole Dia. (mm)	Offset Length (L2) in. (mm)	Material	Color	Pkg. Qty.	Drawing
151-00077	CH20D6	2.0 (50.0)	0.03 – 0.06 (0.6 – 1.4)	0.25 - 0.28	(6.4 - 7.0)	0.8 (20.0)	PA66HS	Black	100	
151-02600	CH20D7	2.0 (50.0)	0.03 – 0.06 (0.6 – 1.4)	0.25 - 0.28	(6.4 - 7.0)	0.8 (20.0)	PA66	Black	100	
150-09201	COW20DP7	0.8 (42.0)	0.03 – 0.18 (0.8 – 4.5)	0.25 - 0.28	(6.4 - 6.8)	0.8 (20.0)	PA66	Brown	500	
151-00080	COW30DP7	1.7 (43.2)	0.03 – 0.18 (0.8 – 4.5)	0.25 - 0.28 0.24 - 0.26	(6.3 - 7.0), (6.1 - 6.6) (hexagonal)	1.2 (30.0)	PA66HS	Black	500	
155-30902	SOC4 M.FT6	2.2 (55.0)	0.03 – 0.20 (0.7 – 5.1)	0.25 - 0.28	(6.5 - 7.0)	0.8 (20.0)	PA66HIRHS	Black	500	
151-00074	SOC5FT6LG	2.2 (55.0)	0.03 – 0.20 (0.7 – 5.1)	0.25 - 0.28 0.24 - 0.26	(6.5 - 7.0), (6.1 - 6.6) (hexagonal)	0.5 (13.0)	PA66HIRHS	Black	500	
151-00023	SOC6	2.2 (55.0)	0.03 – 0.14 (0.8 – 3.5)	0.25 - 0.28 0.24 - 0.26	(6.3 - 7.0), (6.1 - 6.6) (hexagonal)	0.9 (22.0)	PA66HIRHS	Black	500	
151-00629	SOC7FT6	2.2 (56.0)	0.03 – 0.22 (0.7-5.75)	0.25 - 0.27	6.4 - 7.1)	1.2 (31.0)	PA66HIRHSUV	Black	3000	
151-00650	SOC8FT6	2.2 (61.0)	0.03 – 0.22 (0.7 – 5.75)	0.24 - 0.27	(6.2 - 6.8)	0.6 (15.9)	PA66HIRHS	Natural	2000	

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



### Bundling Clips

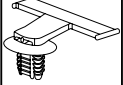

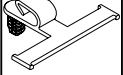
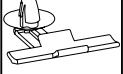
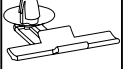
#### Standoff Bundling Clips

PART NO.	TYPE	Length (L) in. (mm)	Panel Thickness in. (mm)	Mounting Hole Dia. in.	Mounting Hole Dia. (mm)	Offset Length (L2) in. (mm)	Material	Color	Pkg. Qty.	Drawing
151-00665	SOC8FT6LG	1.6 (40.0)	0.03 – 0.23 (0.7 – 5.75)	0.26 - 0.28	(6.5 - 7.0)	0.9 (22.0)	PA66HIRHS	Black	1000	
151-01153	SOC9FT6	1.4 (35.5)	0.02 – 0.24 (0.51 – 6.1)	0.24 - 0.27	(6.1 - 6.9)	0.8 (20.3)	PA66HIRHSUV	Natural	4000	
151-01154	SOC9FT6XLG	1.4 (35.5)	0.02 – 0.09 (0.51 – 12.3)	0.24 - 0.27	(6.1 - 6.9)	0.6 (15.8)	PA66HIRHS	Natural	5000	
151-00903	SOC10FT6LG	2.3 (58.0)	0.02 – 0.23 (0.6 - 5.75)	0.24 x 0.27	(6.1 - 6.9), 6.35) (hexagonal)	1.7 (43.4)	PA66HIRHS	Natural	3000	
151-00992	SOC11FTOVAL	2.0 (50.2)	0.02 – 0.27 (0.51 – 6.86)	0.24 x 0.48 0.26 x 0.50 0.26 x 0.51 0.28 x 0.47	(6.2 x 12.2), (6.5 x 12.5), (6.5 x 13.0), (7.0 x 12.0)	0.8 (20.0)	PA66HIRHS	Black	3000	
151-00932		2.0 (50.2)	0.02 – 0.27 (0.51 – 6.86)	0.24 x 0.48 0.25 x 0.50 0.25 x 0.50 0.27 x 0.47	(6.2 x 12.2), (6.5 x 12.5), (6.5 x 13.0), (7.0 x 12.0)	0.8 (20.0)	PA66HIRHS	Natural	3000	
151-01117	SOC12FTOVAL	2.0 (50.0)	0.02 – 0.27 (0.51 – 6.86)	0.24 x 0.48 0.26 x 0.50 0.26 x 0.51 0.28 x 0.47	(6.2 x 12.2), (6.5 x 12.5), (6.5 x 13.0), (7.0 x 12.0)	1.3 (32.0)	PA66HIRHS	Black	1500	
151-01238		2.0 (50.0)	0.02 – 0.27 (0.51 – 6.86)	0.24 x 0.48 0.25 x 0.50 0.25 x 0.50 0.27 x 0.47	(6.2 x 12.2), (6.5 x 12.5), (6.5 x 13.0), (7.0 x 12.0)	1.3 (32.0)	PA66HIRHS	Natural	1500	
151-01125	SOC13FT6LGL	1.7 (43.2)	0.02 – 0.23 (0.6 - 5.75)	0.24 - 0.27	(6.1 - 6.9), 6.35) (hexagonal)	0.8 (20.3)	PA66HIRHS	Gray	5000	
151-01126	SOC13FT6LGR	1.7 (43.2)	0.02 – 0.23 (0.51 – 5.8)	0.24 - 0.27	(6.1 - 6.9)	0.8 (20.3)	PA66HIRHSUV	Black	5000	

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

## Bundling Clips

### Standoff Bundling Clips

PART NO.	TYPE	Length (L) in. (mm)	Panel Thickness in. (mm)	Mounting Hole Dia. in.	Mounting Hole Dia. (mm)	Offset Length (L2) in. (mm)	Material	Color	Pkg. Qty.	Drawing
151-01018	SOC13FTOVAL	2.0 (50.0)	0.02 – 0.16 (0.6 – 4.0)	0.24 x 0.48 0.25 x 0.50 0.25 x 0.50 0.27 x 0.47	(6.2 x 12.2), (6.5 x 12.5), (6.5 x 13.0), (7.0 x 12.0)	0.8 (20.0)	PA66HIRHS	Black	1000	
133-01497	SOC14FT6	1.8 (45.0)	0.02 – 0.20 (0.51 – 5.08)	0.24 - 0.27	(6.1 - 6.9)	0.8 (20.3)	PA66HIRHSUV	Natural	5000	
151-00623	SOCHFT6	2.2 (56.0)	0.03 – 0.22 (0.76 – 5.59)	0.25 - 0.27	(6.35 - 7.0)	1.2 (31.0)	PA66HIRHSUV	Black	1500	
150-45397	STAND OFF CLIP	1.6 (40.0)	0.02 – 0.06 (0.4 – 1.6)	0.26 - 0.27	(6.5 - 6.8)	1.2 (31.0)	PA66HIRHS	Black	500	
155-01600	STAND-OFF-CLIP-2	1.6 (40.0)	0.02 – 0.06 (0.4 – 1.6)	0.26 - 0.27	(6.5 - 6.8)	1.0 (25.0)	PA66HIRHS	Black	500	

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

### Bundling Clips



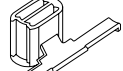
#### Stud Mount Bundling Clips

HellermannTyton Stud Mount Bundling Clips are easily inserted on a 5mm stud and secure the bundle away from the mounting hole. They are designed to provide simple and easy methods of securing cable bundles, hoses, or pipes. They are fastened onto the tape bar using tape or cable ties.

#### Features and Benefits

- Tape clips are designed to provide simple and easy methods of securing cable bundles, hoses, or pipes.
- They are fastened onto the tape bar using tape or cable ties.
- The different fixing orientations allow tape clips to be used with a wide range of panel thicknesses and hole diameters.



PART NO.	TYPE	Length (L) in. (mm)	Stud Dia. in. (mm)	Weld Distance Stud to Bundle in. (mm)	Material	Color	Pkg. Qty.	Drawing
151-00016	BC30	2.2 (55.0)	0.2 (5.0)	1.9 (30.0)	PA66HIRHS	Black	1000	
151-00017	BC2212	2.2 (55.0)	0.2 (5.0)	0.9 (22.8)	PA66HIRHS	Black	1000	
151-26101	TC-SB5C	2.2 (55.0)	0.2 (5.0)	0.5 (12.5)	PA66HS	Black	500	

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

# Bundling and Securing

## Self-Affixing Clips

### Connector Clips

#### Connector Clips

Connector Clips feature various attachment point configurations to accommodate the many connectors on the market. They are first mated with a connector on a wire harness or cable assembly, then secured to a surface using the integrated mount. With so many configurations available, attachment surfaces can be a hole, edge, stud or even another harness assembly.

#### Features and Benefits

- HellermannTyton Connector Clips provide a single method to mount connectors to various surfaces in a variety of applications.
- Highly engineered designs feature anti-rattle discs, anti-rotation oval fir trees and clamps for mounting on edges.
- An assortment of Connector Clips is available to fit the variety of connector slot designs made by most of the largest global connector manufacturers.



PART NO.	TYPE	Panel Thickness in. (mm)	Mounting Hole Dia. in. (mm)		Material	Color	Pkg. Qty.
151-00513	YCCSFT62122	0.02 - 0.04 (0.6 - 1.0)	0.24 - 0.48	(6.2 x 12.2)	PA66HIRHS	Black	500
151-01033	CCOVAL6	0.02 - 0.12 (0.6 - 3.0)	0.24 x 0.48 0.25 x 0.50 0.25 x 0.50 0.27 x 0.47	(6.2 x 12.2), (6.5 x 12.5), (6.5 x 13.0), (7.0 x 12.0)	PA66HIRHS	Black	4000
155-36002	STECKERHALTER SITZ	0.02 - 0.12 (0.6 - 3.0)	0.26 - 0.28	(6.5 - 7.0)	PA66HIRHS	Black	1000
151-00180	YCCFT62x122	0.02 - 0.24 (0.6 - 6.0)	0.24 x 0.48	(6.2 x 12.2)	PA66HIRHS	Black	1000
151-01108	CCOVAL2	0.02 - 0.24 (0.6 - 6.0)	0.24 x 0.48 0.25 x 0.50 0.25 x 0.50 0.27 x 0.47	(6.2 x 12.2), (6.5 x 12.5), (6.5 x 13.0), (7.0 x 12.0)	PA66HIRHS	Black	5000
151-00925	CCOVAL	0.02 - 0.24 (0.6 - 6.0)	0.24 x 0.48 0.25 x 0.50 0.25 x 0.50 0.27 x 0.47	(6.2 x 12.2), (6.5 x 12.5), (6.5 x 13.0), (7.0 x 12.0)	PA66HIRHS	Black	5000
151-01259		0.02 - 0.24 (0.5 - 6.0)	0.24 x 0.48 0.26 x 0.50 0.26 x 0.51 0.28 x 0.47	(6.2 x 12.2), (6.5 x 12.5), (6.5 x 13.0), (7.0 x 12.0)	PA66HIRHS	Natural	5000
151-00765	CC09	0.02 - 0.25 (0.6 - 6.4)	0.35 x 0.67	(9.0 x 17.0)	PA66HIRHS	Black	1000
151-01136	CC12	0.02 - 0.26 (0.5 - 6.5)	0.31 x 0.59	(8.0 x 15.0)	PA66HIRHS	Black	4000
151-01244	CCOVAL3	0.02 - 0.27 (0.5 - 6.8)	0.24 x 0.48 0.26 x 0.50 0.26 x 0.51 0.28 x 0.47	(6.2 x 12.2), (6.5 x 12.5), (6.5 x 13.0), (7.0 x 12.0)	PA66HIRHS	Black	3500
151-01286	CCOVAL5	0.02 - 0.27 (0.5 - 6.8)	0.24 x 0.48 0.26 x 0.50 0.26 x 0.51 0.28 x 0.47	(6.2 x 12.2), (6.5 x 12.5), (6.5 x 13.0), (7.0 x 12.0)	PA66HIRHS	Black	4000

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### Connector Clips

#### Connector Clips

PART NO.	TYPE	Panel Thickness in. (mm)	Mounting Hole Dia. in. (mm)		Material	Color	Pkg. Qty.
151-01246	CCOVAL4	0.02 - 0.27 (0.5 - 6.8)	0.24 x 0.48 0.26 x 0.50 0.26 x 0.51 0.28 x 0.47	(6.2 x 12.2), (6.5 x 12.5), (6.5 x 13.0), (7.0 x 12.0)	PA66HIRHS	Black	5000
151-00835	YCCKSFT62x122PT0.7-1.3	0.03 - 0.05 (0.7 - 1.3)	0.24 - 0.48	(6.2 x 12.2)	PA66HIRHS	Black	10000
151-00833	YCCKSFT62x122PT0.7-1.3 90°	0.03 - 0.05 (0.7 - 1.3)	0.24 x 0.48	(6.2 x 12.2)	PA66HIRHS	Black	10000
151-00785	CCFT6LG	0.03 - 0.16 (0.7 - 4.0)	0.24 - 0.26	(6.0 - 6.7)	PA66HIRHS	Black	5000
155-30702	FT6LG.YAZ.CONNECT-TS	0.03 - 0.2 (0.7 - 5.1)	0.25 - 0.28	(6.4 - 7.1)	PA66HIRHS	Black	500
155-32602	FT6LG.M.St.Aufn.II	0.03 - 0.2 (0.8 - 5.0)	0.26 - 0.28	(6.5 - 7.0)	PA66HIRHS	Black	500
151-00677	CC08	0.03 - 0.23 (0.8 - 5.75)	0.08 x 0.26	6.25 - 6.75)	PA66HIRHS	Natural	5000
155-03800	FT6LG-AMP	0.03 - 0.24 (0.7 - 6.0)	0.26 - 0.28	(6.5 - 7.0)	PA66HIRHS	Black	500
151-00786	CCFT6XLG	0.03 - 0.43 (0.7 - 11.0)	0.24 - 0.26	(6.0 - 6.7)	PA66HIRHS	Black	5000
155-38102	YCC-FT6-S	0.04 - 0.06 (0.8 - 1.5)	0.26 - 0.28	(6.5 - 7.0)	PA66HIRHS	Black	500
151-00464	EC6mod	0.04 - 0.12 (1.0 - 3.0)	-	-	PA66HIRHS	Black	1000
151-01113	EC46	0.04 - 0.12 (1.0 - 3.0)	-	-	PA66HIRHSUV	Black	5000
151-00620	CCIISFT6.5x13	0.04 - 0.12 (0.7 - 3.0)	0.26 - 0.51	(6.5 x 13.0)	PA66HIRHS	Black	500
151-00459	FT6LG.JAE.CONNECT.TS	0.04 - 0.20 (0.7 - 5.1)	0.26 - 0.28	(6.5 - 7.0)	PA66HIRHS	Black	500
151-00235	Big YCC TS	0.04 - 0.20 (0.7 - 5.1)	0.26 - 0.28	(6.4 - 7.1)	PA66HIRHS	Black	500
151-00430	EC43	0.06 - 0.16 (1.5 - 4.0)	-	-	PA66HIRHS	Black	500
151-00429	EC42	0.06 - 0.16 (1.5 - 4.0)	-	-	PA66HIRHS	Black	500
151-00836	YCCKSFT62x122PT1.7-2.3	0.07 - 0.09 (1.7 - 2.3)	0.24 - 0.48	(6.2 x 12.2)	PA66HIRHS	Black	10000
151-00834	YCCKSFT62x122PT1.7-2.3 90°	0.07 - 0.09 (1.7 - 2.3)	0.24 - 0.48	(6.2 x 12.2)	PA66HIRHS	Black	10000
151-00775	CCSFT6.5	0.07 - 0.09 (1.7 - 2.3)	0.25 - 0.26	(6.3 - 6.7)	PA66HIRHS	Black	5000
151-00194	CCSFT7x12	0.08 - 0.31 (0.8 - 2.0)	0.28 - 0.47	(7.0 x 12.0)	PA66HIRHS	Black	500
151-00499	ECC1CPT	0.12 - 0.31 (3.0 - 6.0)	-	-	PA66HIRHS	Black	500

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

# Bundling and Securing

## Self-Affixing Clips

### Edge Clips

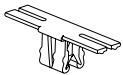
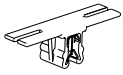
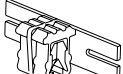
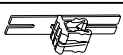
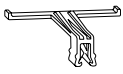
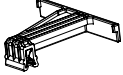
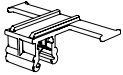
#### Edge Clip and Tape Clip Combination

HellermannTyton's edge clips are designed specifically to route bundles by securing them to the edge of a plastic or metal sheet without the need for a mounting hole. These edge clips are molded to a tape bar, which can be secured to cables with cable ties or tape. The clip is easy to secure, and the extraction force is high due to the integrated metal clamp that holds the edge clip in place.

#### Features and Benefits

- Edge clip applies easily to plastic and metal edges without the need for a mounting hole.
- Tape bar provides a convenient surface for securing a bundle using a cable tie or tape.



PART NO.	TYPE	Panel Thickness in. (mm)	Length (L) in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.	Drawing
151-03404	EC14	0.04 – 0.12 (1.0 – 3.0)	1.6 (40.0)	0.4 (10.0)	PA66HIRHS	Black	500	
151-03401	EC15	0.04 – 0.12 (1.0 – 3.0)	1.6 (40.0)	0.4 (10.0)	PA66HIRHS	Black	500	
151-03402	EC16	0.04 – 0.12 (1.0 – 3.0)	1.6 (40.0)	0.4 (10.0)	PA66HIRHS	Black	500	
151-03403	EC17	0.04 – 0.12 (1.0 – 3.0)	1.8 (46.5)	0.4 (10.0)	PA66HIRHS	Black	500	
EC30.HB6P	EC30	0.04 – 0.12 (1.0 – 3.0)	2.0 (50.0)	0.4 (9.0)	PA66HIRHS	Black	500	
151-00152	EC31	0.04 – 0.12 (1.0 – 3.0)	2.4 (60.0)	0.4 (9.0)	PA66HIRHS	Black	500	
151-01206	EC48	0.12 – 0.24 (3.0 – 6.0)	2.0 (50.0)	1.2 (29.7)	PA66HIRHS	Black	5000	

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

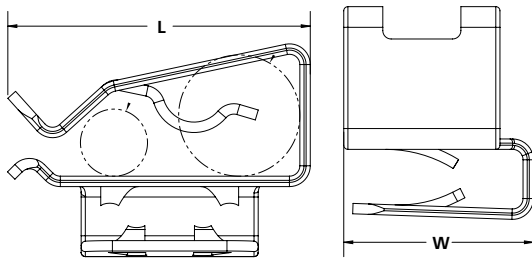
### Edge Clips

#### 90° Metal Edge Clip

HellermannTyton's 90-Degree Metal Edge Clip provides an excellent alternative to managing wire and PV cables where plastic fasteners are not the preferred method. Designed for effortless insertion, this edge clip also has a high extraction force. The 90-degree configuration secures cables to a panel in a perpendicular orientation. Metal construction tolerates extreme environments, and a low-profile design allows the clip to be installed on a wide variety of module edges.

#### Features and Benefits

- Integrated design allows for easy insertion by hand.
- 1.5–2mm panel thickness range allows for multiple applications.
- Double-compression design that accommodates various sizes of wire and cable.
- Presents a high extraction force for withstanding extreme conditions.



PART NO.	TYPE	Min. Panel Thickness in. (mm)	Max. Panel Thickness in. (mm)	Min. Cable Diameter in. (mm)	Max. Cable Diameter in. (mm)	Length (L) in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
151-02189*	MSC90	0.06 (1.5)	0.078 (2.0)	0.2 (4.1)	0.3 (7.0)	0.7 (18.4)	0.5 (11.6)	SS304	Metal	100

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 \*This product meets UL standards. Please see appendix for specific file numbers.

# Bundling and Securing

## Self-Affixing Clips

### Edge Clips

#### Heavy Duty Metal Edge Clip

HellermannTyton's Heavy Duty Metal Edge Clip provides an excellent alternative to managing wire and PV cables where plastic fasteners are not the preferred method. Designed for effortless insertion, the Heavy Duty Edge Clip has a high extraction force that tolerates extreme environments and provides assurance that the cables are secure on a panel. This Metal Edge Clip is simple to install and can easily be removed with a flathead screwdriver.

#### Features and Benefits

- Integrated design allows for easy insertion by hand.
- 1–3mm panel thickness range allows for multiple applications.
- Double-compression design that accommodates various sizes of wire and cable.
- Presents a high extraction force for withstanding extreme conditions.



PART NO.	TYPE	Panel Thickness in. (mm)	Min. Cable Diameter in. (mm)	Max. Cable Diameter in. (mm)	Length (L) in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
151-00982*	MSC2	0.0 - 0.1 (1.0 - 3.0)	0.2 (5.0)	0.3 (7.6)	1.0 (24.1)	0.5 (13.0)	SS304	Metal	100

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 \*This product meets UL standards. Please see appendix for specific file numbers.

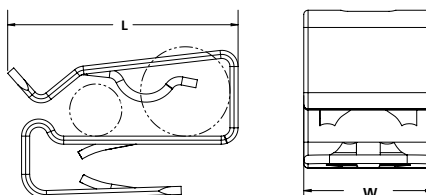
### Edge Clips

#### Low Profile Metal Edge Clip

Designed for more confined areas, HellermannTyton's Low Profile Metal Edge Clip provides an excellent alternative to managing wire and PV cables where plastic fasteners are not the preferred method. Designed for effortless insertion, the Metal Edge Clip has a high extraction force that tolerates extreme environments and provides assurance that the cables are secure on a panel. The Metal Edge Clip is simple to install and can easily be removed with a flathead screwdriver.

#### Features and Benefits

- Integrated design allows for easy insertion by hand.
- 1.5–2.0mm panel thickness range allows for multiple applications.
- Double-compression design that accommodates various sizes of wire and cable.
- Presents a high extraction force for withstanding extreme conditions.



PART NO.	TYPE	Panel Thickness in. (mm)	Min. Cable Diameter in. (mm)	Max. Cable Diameter in. (mm)	Length (L) in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
151-01699*	MSC2LP	0.1 - 0.1 (1.5 - 2.0)	0.2 (4.1)	0.3 (7.0)	0.7 (17.0)	0.4 (9.5)	SS304	Metal	100

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 \*This product meets UL standards. Please see appendix for specific file numbers.



### Edge Clips

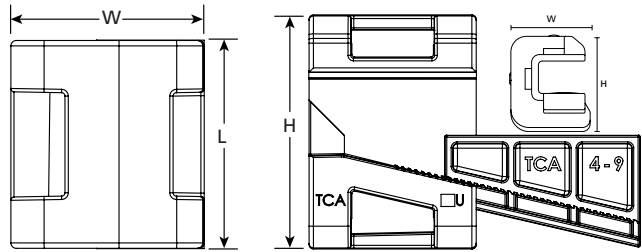
#### Heavy Duty Wedge Clips

The Wedge Clip, paired with any HellermannTyton heavy duty Cable Tie, routes cables along a frame or rail in vertical or horizontal applications. A robust design and durable materials make it ideal for extreme-duty applications. The integrated wedge mechanism slides along a stepped grade until snug against the mounting surface. Inside the clip is a 3M™ VHB™ (Very High Bond) adhesive pad, which actually builds strength over time. This holds the clip to the work surface instantly, enabling installers to place it into position without worrying about it falling off prior to fastening. The combination of adhesive and the clip's vice-like compression result in incredible extraction force without the need to drill holes. The Wedge Clip is offered in three sizes.



#### Features and Benefits

- Two-piece ratcheting wedge design allows for easy, positive-locking size adjustment.
- Peel and stick 3M™ VHB™ adhesive inside clip increases grip and enables one-hand installation.
- Heat-stabilized, glass-filled PA66 assembly delivers remarkable extraction force without drilling.
- Three sizes cover a wide range of mounting thicknesses, reducing part inventory.
- 4-way, wide slot accommodates our heavy-duty and Wide-Strap Series Cable Ties.



PART NO.	TYPE	Panel Thickness in. (mm)	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
151-01565	BCAA	0.0 - 0.2 (0.0 - 5.0)	1.2 (30.8)	1.1 (28.6)	1.7 (43.1)	PA66HSGF30	Black, Green	200
151-01566	BCBLGA	0.2 - 0.4 (4.0 - 9.0)	1.2 (30.8)	1.1 (28.6)	1.7 (43.1)	PA66HSGF30	Black	200
151-01567	BCCLGA	0.3 - 0.5 (8.0 - 13.0)	1.2 (30.8)	1.1 (28.6)	1.7 (43.1)	PA66HSGF30	Black, Gray	200

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. 3M and VHB are trademarks of 3M Company.

# Bundling and Securing

## Self-Affixing Clips

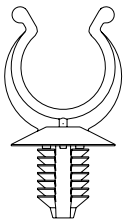
### Convolute Tubing Clips

#### Convolute Tubing Mounts

Convolute Tubing Clips provide a quick and easy method for firmly securing corrugated covered cables and wires to a surface. Applications such as this can be found in a wide variety of industries such as the wire harness, automotive, trucking, and heavy equipment manufacturing industries.

#### Features and Benefits

- Clip includes an internal rib that spans the inside of the bracket to fit securely into the profile of the tubing to prevent lateral movement and slipping of the tubing.
- Fir tree design provides low insertion forces and high extraction forces.
- Extended fir tree allows for a wide range of panel thicknesses.



PART NO.	TYPE	Nominal Dia. in. (mm)	Min. Panel Thickness in. (mm)	Max. Panel Thickness in. (mm)	Mounting Hole Dia. in. (mm)	Material	Color	Pkg. Qty.
151-00018	CTC10FT6LG	3/8 (10.0)	0.04 (0.75)	0.03 (6.0)	0.26 - 0.28 (6.5 - 7.0)	PA66HIRHS	Black	500
155-17801	CTC10FT9	3/8 (10.0)	0.12 (3.0)	0.12 (5.0)	0.34 - 0.35 (8.7 - 9.0)	PA66HIRHS	Black	500
151-14312	CTC13FT6	1/2 (13.0)	0.04 (0.75)	0.03 (3.0)	0.26 - 0.28 (6.5 - 7.0)	PA66HIRHS	Black	500
151-00019	CTC13FT6LG	1/2 (13.0)	0.04 (0.75)	0.24 (6.0)	0.26 - 0.28 (6.5 - 7.0)	PA66HIRHS	Black	500
151-00783	CTCFT6	1-9/16 (15.0)	0.04 (0.7)	0.03 (4.5)	0.25 - 0.28 (6.3 - 6.7)	PA66HIRHS	Black	5000
151-00621	CTCL16FT6LG	5/8 (16.0)	0.02 (0.7)	0.5 (13.0)	0.25 - 0.28 (6.3 - 7.0)	PA66HIRHS	Black	1500

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

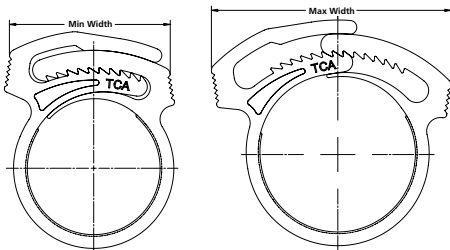
### Hose Clamps

#### Snapper Hose Clamps Polyamide 6.6 Glass Filled Impact Modified Heat Stabilized

The Snapper Hose Clamp features a ratchet-style closure for reduced assembly time. It can be added after connection of the hose. Release by sliding the ratchet ends apart. Snappers can be used in under-hood applications and are stable in a wide variety of chemicals including salts, bases, alcohols, ethers, detergents, gasoline, lubricating oils and greases. They are manufactured in black PA66 glass filled, impact modified, heat stabilized material. Custom design and color options are available based upon application and volume requirements.

#### Features and Benefits

- Installation and removal can be five times faster than conventional clamps.
- Heat stabilized material is suitable for high-temperature applications.
- Can be installed with hose in place.
- One-handed installation in tight places.



PART NO.	TYPE	Min. Diameter in. (mm)	Max. Diameter in. (mm)	Width in. (mm)	Wall Thickness in. (mm)	Min. Width in. (mm)	Max. Width in. (mm)	Material	Color	Pkg. Qty.
SNP1GHS0C2	SNP1	0.2 (6.0)	0.3 (6.7)	0.1 (3.8)	0.0 (1.0)	0.3 (8.4)	0.5 (11.7)	PA66GF13	Black	100
SNP1GHS0M4		0.2 (6.0)	0.3 (6.7)	0.1 (3.8)	0.0 (1.0)	0.3 (8.6)	0.5 (11.8)	PA66GF13	Black	1000
SNP1.25GHS0M4	SNP1.25	0.3 (7.2)	0.3 (7.7)	0.2 (3.8)	0.0 (1.1)	0.4 (10.6)	0.5 (12.6)	PA66GF13	Black	1000
SNP1.25GHS0C2		0.3 (7.2)	0.3 (7.7)	0.2 (3.8)	0.0 (1.1)	0.4 (10.6)	0.5 (12.6)	PA66GF13	Black	100
SNP1.5GHS0M4	SNP1.5	0.3 (8.0)	0.4 (8.9)	0.1 (3.7)	0.1 (1.4)	0.4 (10.5)	0.6 (15.0)	PA66GF13	Black	1000
SNP1.5GHS0C2		0.3 (8.0)	0.4 (8.9)	0.1 (3.7)	0.1 (1.4)	0.4 (10.5)	0.6 (15.0)	PA66GF13	Black	100
SNP2GHS0C2	SNP2	0.4 (9.3)	0.4 (10.4)	0.2 (5.9)	0.1 (1.7)	0.5 (12.2)	0.7 (17.6)	PA66GF13	Black	100
SNP2GHS0M4		0.4 (9.3)	0.4 (10.4)	0.2 (5.9)	0.1 (1.7)	0.5 (12.2)	0.7 (17.5)	PA66GF13	Black	1000
SNP3GHS0C2	SNP3	0.4 (10.1)	0.5 (11.4)	0.2 (5.9)	0.1 (1.8)	0.6 (14.4)	0.8 (20.5)	PA66GF13	Black	100
SNP3GHS0M4		0.4 (10.1)	0.5 (11.4)	0.2 (5.9)	0.1 (1.8)	0.6 (14.4)	0.8 (20.5)	PA66GF13	Black	1000
SNP4GHS0C2	SNP4	0.4 (10.4)	0.5 (11.6)	0.2 (5.9)	0.1 (1.7)	0.5 (13.3)	0.8 (19.2)	PA66GF13	Black	100
SNP4GHS0M4		0.4 (10.4)	0.5 (11.6)	0.2 (5.9)	0.1 (1.7)	0.5 (13.4)	0.8 (19.2)	PA66GF13	Black	1000
SNP6GHS0C2	SNP6	0.5 (11.6)	0.5 (13.2)	0.2 (5.9)	0.1 (1.7)	0.6 (14.7)	0.8 (21.6)	PA66GF13	Black	100
SNP6GHS0M4		0.5 (11.6)	0.5 (13.2)	0.2 (5.9)	0.1 (1.8)	0.6 (14.7)	0.8 (21.5)	PA66GF13	Black	1000
SNP7GHS0C2	SNP7	0.5 (11.7)	0.6 (14.0)	0.2 (5.9)	0.1 (1.7)	0.7 (18.4)	1.1 (28.5)	PA66GF13	Black	100
SNP7GHS0M4		0.5 (11.7)	0.6 (14.0)	0.2 (5.9)	0.1 (1.8)	0.7 (18.6)	1.1 (28.7)	PA66GF13	Black	1000
SNP8GHS0M4	SNP8	0.5 (13.1)	0.6 (15.0)	0.2 (5.7)	0.1 (1.8)	0.7 (16.7)	1.0 (24.9)	PA66GF13	Black	1000
SNP8GHS0C2		0.5 (13.1)	0.6 (15.0)	0.2 (5.7)	0.1 (1.7)	0.7 (16.7)	1.0 (24.9)	PA66GF13	Black	100

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Snapper performance varies on application and environmental factors; end use testing is highly recommended.

# Bundling and Securing

## Clamps

### Hose Clamps

Snapper Hose Clamps Polyamide 6.6 Glass Filled Impact Modified Heat Stabilized

PART NO.	TYPE	Min. Diameter in. (mm)	Max. Diameter in. (mm)	Width in. (mm)	Wall Thickness in. (mm)	Min. Width in. (mm)	Max. Width in. (mm)	Material	Color	Pkg. Qty.
SNP10GHS0M4	SNP10	0.6 (14.5)	0.7 (16.6)	0.2 (5.9)	0.1 (1.7)	0.7 (17.6)	1.1 (26.9)	PA66GF13	Black	1000
SNP10GHS0C2		0.6 (14.5)	0.7 (16.6)	0.2 (5.9)	0.1 (1.8)	0.7 (17.6)	1.1 (26.9)	PA66GF13	Black	100
SNP12AGHS0M4	SNP12A	0.6 (15.6)	0.7 (18.3)	0.2 (5.9)	0.1 (1.8)	0.8 (21.0)	1.2 (29.9)	PA66GF13	Black	1000
SNP12AGHS0C2		0.6 (15.6)	0.7 (18.3)	0.2 (5.9)	0.1 (1.8)	0.8 (21.0)	1.2 (29.9)	PA66GF13	Black	100
109-00301	SNP14A	0.7 (18.5)	0.8 (21.0)	0.2 (5.9)	0.1 (1.8)	0.8 (20.9)	1.2 (30.1)	PA66GF13	Black	1000
109-00300		0.7 (18.5)	0.8 (21.0)	0.2 (5.9)	0.1 (1.8)	0.8 (20.9)	1.2 (30.1)	PA66GF13	Black	100
SNP16GHS0M4	SNP16	0.8 (19.1)	0.9 (21.7)	0.2 (5.8)	0.1 (1.7)	0.8 (19.9)	1.2 (30.8)	PA66GF13	Black	1000
SNP16GHS0C2		0.8 (19.1)	0.9 (21.7)	0.2 (5.8)	0.1 (1.5)	0.8 (19.9)	1.2 (30.8)	PA66GF13	Black	100
SNP18AGHS0C2	SNP18A	0.8 (19.9)	0.9 (23.6)	0.2 (5.9)	0.1 (1.8)	0.9 (24.0)	1.4 (35.5)	PA66GF13	Black	100
SNP18AGHS0M4		0.8 (19.9)	0.9 (23.6)	0.2 (5.9)	0.1 (1.8)	0.9 (24.0)	1.4 (35.5)	PA66GF13	Black	1000
SNP22GHS0M4	SNP22	0.9 (23.7)	1.1 (27.4)	0.2 (6.0)	0.1 (1.8)	0.9 (23.9)	1.5 (37.7)	PA66GF13	Black	1000
SNP22GHS0C2		0.9 (23.7)	1.1 (27.4)	0.2 (6.0)	0.1 (1.8)	0.9 (23.9)	1.5 (37.7)	PA66GF13	Black	100
SNP19GHS0M4	SNP19	1.0 (24.4)	1.0 (25.3)	0.2 (5.9)	0.1 (1.8)	0.9 (22.3)	1.4 (36.1)	PA66GF13	Black	1000
SNP19GHS0C2		1.0 (24.4)	1.0 (25.3)	0.2 (5.9)	0.1 (1.7)	0.9 (24.4)	1.4 (36.1)	PA66GF13	Black	100
SNP24GHS0H4	SNP24	1.0 (25.8)	1.2 (29.7)	0.3 (7.4)	0.1 (1.7)	1.0 (26.5)	1.6 (39.4)	PA66GF13	Black	500
SNP24GHS0C2		1.0 (25.8)	1.2 (29.7)	0.3 (7.3)	0.1 (1.7)	1.0 (26.5)	1.6 (39.4)	PA66GF13	Black	100
SNP28GHS0H4	SNP28	1.1 (28.5)	1.3 (32.7)	0.3 (7.3)	0.1 (1.7)	1.0 (25.9)	1.6 (41.8)	PA66GF13	Black	500
SNP28GHS0C2		1.1 (28.5)	1.3 (32.7)	0.3 (7.3)	0.1 (1.7)	1.0 (26.0)	1.6 (42.1)	PA66GF13	Black	100
SNP32GHS0K2	SNP32	1.2 (31.2)	1.4 (35.8)	0.3 (7.3)	0.1 (1.8)	1.1 (27.3)	1.7 (44.4)	PA66GF13	Black	50
SNP32GHS0H4		1.2 (31.2)	1.4 (35.8)	0.3 (7.3)	0.1 (1.7)	1.1 (27.3)	1.7 (44.4)	PA66GF13	Black	500
SNP33GHS0H4	SNP33	1.3 (32.8)	1.6 (40.4)	0.3 (7.3)	0.1 (1.7)	1.6 (41.4)	2.6 (65.1)	PA66GF13	Black	500
SNP34GHS0H4	SNP34	1.4 (34.7)	1.6 (40.5)	0.3 (7.4)	0.1 (1.7)	1.2 (30.6)	2.0 (50.7)	PA66GF13	Black	500
SNP34GHS0K2		1.4 (34.7)	1.6 (40.5)	0.3 (7.4)	0.1 (1.7)	1.2 (30.6)	2.0 (50.7)	PA66GF13	Black	50
SNP36GHS0H4	SNP36	1.5 (37.8)	1.7 (44.0)	0.3 (7.3)	0.1 (1.7)	1.3 (32.4)	1.7 (44.0)	PA66GF13	Black	500
SNP36GHS0K2		1.5 (37.8)	1.7 (44.0)	0.3 (7.3)	0.1 (1.7)	1.3 (32.4)	2.1 (53.8)	PA66GF13	Black	50
SNP38GHS0K2	SNP38	1.6 (41.0)	1.9 (48.1)	0.3 (7.3)	0.1 (1.8)	1.4 (35.6)	2.3 (57.5)	PA66GF13	Black	50
SNP38GHS0H4		1.6 (41.0)	1.9 (48.1)	0.3 (7.3)	0.1 (1.7)	1.4 (35.6)	2.3 (57.5)	PA66GF13	Black	500
SNP42NGHS0C2	SNP42N	1.7 (44.2)	2.0 (51.3)	0.3 (7.3)	0.1 (1.7)	1.4 (35.1)	2.3 (58.9)	PA66GF13	Black	100
SNP42NGHS0K2	SNP42	1.7 (44.2)	2.0 (51.3)	0.3 (7.3)	0.1 (1.7)	1.4 (35.7)	2.3 (59.8)	PA66GF13	Black	50
SNP50GHS0C2	SNP50	2.1 (52.2)	2.3 (58.6)	0.3 (7.3)	0.1 (1.7)	1.4 (36.5)	2.4 (60.4)	PA66GF13	Black	100
SNP60GHS0C2	SNP60	2.3 (58.6)	2.6 (65.7)	0.3 (7.2)	0.1 (1.7)	1.5 (38.4)	2.6 (65.4)	PA66GF13	Black	100
SNP70GHS0C2	SNP70	2.6 (66.9)	3.1 (79.9)	0.3 (7.5)	0.1 (2.0)	1.8 (46.5)	3.1 (77.7)	PA66GF13	Black	100
SNP76GHS0C2	SNP76	2.9 (73.6)	3.3 (82.7)	0.4 (9.9)	0.1 (1.7)	1.7 (44.1)	2.9 (73.7)	PA66GF13	Black	100
SNP76GHS0X2		2.9 (73.6)	3.3 (82.7)	0.4 (9.9)	0.7 (1.7)	1.7 (44.1)	2.9 (73.7)	PA66GF13	Black	25
SNP80GHS0C2	SNP80	3.1 (79.4)	3.5 (88.3)	0.3 (8.4)	0.1 (2.5)	1.9 (47.5)	3.1 (78.7)	PA66GF13	Black	100
SNP90GHS0X2	SNP90	3.5 (87.8)	3.8 (97.1)	0.4 (9.8)	0.1 (2.4)	1.9 (48.8)	3.2 (81.5)	PA66GF13	Black	25
SNP100GHS0C2	SNP100	3.8 (97.6)	4.3 (110.0)	0.4 (9.9)	0.1 (2.5)	2.1 (52.6)	3.5 (89.9)	PA66GF13	Black	100
SNP101GHS0X2	SNP101	4.1 (104.7)	4.7 (119.9)	0.4 (11.3)	0.1 (2.5)	2.4 (61.6)	4.3 (108.3)	PA66GF13	Black	25

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Snapper performance varies on application and environmental factors; end use testing is highly recommended.

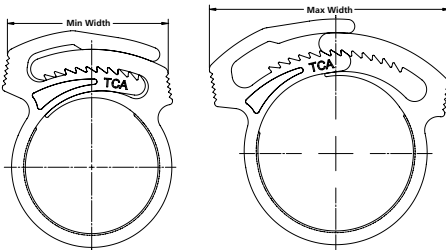
### Hose Clamps

#### Snapper Hose Clamps Polyacetal (POM)

The Snapper Hose Clamp features a ratchet-style closure for reduced assembly time. It can be added after connection of the hose. Release by sliding the ratchet ends apart. These white polyacetal Snappers can be used in under-hood applications and are stable in a wide variety of chemicals including salts, bases, alcohols, ethers, detergents, gasoline, lubricating oils and greases. Custom design and color options are available based upon application and volume requirements.

#### Features and Benefits

- Installation and removal can be five times faster than conventional clamps.
- Can be installed with hose in place.
- One-handed installation in tight places.



PART NO.	TYPE	Min. Diameter in. (mm)	Max. Diameter in. (mm)	Width in. (mm)	Wall Thickness in. (mm)	Min. Width in. (mm)	Max. Width in. (mm)	Material	Color	Pkg. Qty.
SNP110C2	SNP1	0.2 (6.0)	0.3 (6.7)	0.1 (3.8)	0.0 (1.0)	0.3 (8.3)	0.5 (11.7)	POM	White	100
SNP110M4		0.2 (6.0)	0.3 (6.7)	0.1 (3.8)	0.0 (1.0)	0.3 (8.3)	0.5 (11.7)	POM	White	1000
SNP1.2510C2	SNP1.25	0.3 (7.0)	0.3 (7.5)	0.2 (3.8)	0.0 (1.1)	0.4 (10.4)	0.5 (12.5)	POM	White	100
SNP1.2510M4		0.3 (7.0)	0.3 (7.5)	0.2 (3.8)	0.0 (1.1)	0.4 (10.4)	0.5 (12.5)	POM	White	1000
SNP1.510C2	SNP1.5	0.3 (7.9)	0.3 (8.8)	0.1 (3.8)	0.1 (1.4)	0.4 (10.4)	0.6 (14.9)	POM	White	100
SNP1.510M4		0.3 (7.9)	0.3 (8.8)	0.1 (3.8)	0.1 (1.4)	0.4 (10.4)	0.6 (14.9)	POM	White	1000
SNP210C2	SNP2	0.4 (9.0)	0.4 (10.1)	0.2 (5.8)	0.1 (1.7)	0.5 (12.0)	0.7 (17.1)	POM	White	100
SNP210M4		0.4 (9.0)	0.4 (10.1)	0.2 (5.8)	0.1 (1.7)	0.5 (12.0)	0.7 (17.1)	POM	White	1000
SNP410C2	SNP4	0.4 (9.6)	0.4 (10.7)	0.2 (5.8)	0.1 (1.7)	0.5 (13.2)	0.7 (18.9)	POM	White	100
SNP410M4		0.4 (9.6)	0.4 (10.7)	0.2 (5.8)	0.1 (1.7)	0.5 (13.2)	0.7 (18.9)	POM	White	1000
SNP310C2	SNP3	0.4 (9.8)	0.4 (11.2)	0.2 (5.9)	0.1 (1.8)	0.6 (14.2)	0.8 (20.4)	POM	White	100
SNP310M4		0.4 (9.8)	0.4 (11.2)	0.2 (5.9)	0.1 (1.8)	0.6 (14.2)	0.8 (20.4)	POM	White	1000
SNP610C2	SNP6	0.5 (11.5)	0.5 (13.0)	0.2 (5.9)	0.1 (1.8)	0.6 (14.2)	0.8 (20.9)	POM	White	100
SNP610M4		0.5 (11.5)	0.5 (13.0)	0.2 (5.9)	0.1 (1.8)	0.6 (14.2)	0.8 (20.9)	POM	White	1000
SNP710C2	SNP7	0.5 (11.6)	0.6 (14.2)	0.2 (5.9)	0.1 (1.8)	0.7 (18.6)	1.1 (29.0)	POM	White	100
SNP710M4		0.5 (11.6)	0.6 (14.2)	0.2 (5.9)	0.1 (1.8)	0.7 (18.6)	1.1 (29.0)	POM	White	1000
SNP810C2	SNP8	0.5 (13.1)	0.6 (14.9)	0.2 (5.8)	0.1 (1.8)	0.6 (16.0)	1.0 (24.5)	POM	White	100
SNP810M4		0.5 (13.1)	0.6 (14.9)	0.2 (5.8)	0.1 (1.8)	0.6 (16.0)	1.0 (24.5)	POM	White	1000
SNP1010C2	SNP10	0.6 (14.5)	0.7 (16.5)	0.2 (6.0)	0.1 (1.7)	0.7 (16.8)	1.0 (25.6)	POM	White	100
SNP1010M4		0.6 (14.5)	0.7 (16.5)	0.2 (6.0)	0.1 (1.7)	0.7 (16.8)	1.0 (25.6)	POM	White	1000

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

Acetal black is also available based upon minimum volume requirements. Snapper performance varies on application and environmental factors; end use testing is highly recommended.

# Bundling and Securing

## Clamps

### Hose Clamps

#### Snapper Hose Clamps Polyacetal (POM)

PART NO.	TYPE	Min. Diameter in. (mm)	Max. Diameter in. (mm)	Width in. (mm)	Wall Thickness in. (mm)	Min. Width in. (mm)	Max. Width in. (mm)	Material	Color	Pkg. Qty.
SNP12A10C2	SNP12A	0.6 (15.5)	0.7 (18.2)	0.2 (5.9)	0.1 (1.8)	0.8 (20.6)	1.2 (29.4)	POM	White	100
SNP12A10M4		0.6 (15.5)	0.7 (18.2)	0.2 (5.9)	0.1 (1.8)	0.8 (20.6)	1.2 (29.4)	POM	White	1000
SNP14A10C2	SNP14A	0.7 (18.1)	0.8 (20.6)	0.2 (5.9)	0.1 (1.8)	0.8 (20.5)	1.2 (29.4)	POM	White	100
SNP14A10M4		0.7 (18.1)	0.8 (20.6)	0.2 (5.9)	0.1 (1.8)	0.8 (20.5)	1.2 (29.4)	POM	White	1000
SNP1610C2	SNP16	0.7 (18.9)	0.8 (21.3)	0.2 (5.8)	0.1 (1.7)	0.8 (19.5)	1.2 (30.1)	POM	White	100
SNP1610M4		0.7 (18.9)	0.8 (21.3)	0.2 (5.8)	0.1 (1.7)	0.8 (19.5)	1.2 (30.1)	POM	White	1000
SNP18A10C2	SNP18A	0.8 (19.7)	0.9 (23.6)	0.2 (5.9)	0.1 (1.7)	0.9 (23.6)	1.4 (35.0)	POM	White	100
SNP18A10M4		0.8 (19.7)	0.9 (23.6)	0.2 (5.9)	0.1 (1.7)	0.9 (23.6)	1.4 (35.0)	POM	White	1000
SNP1910C2	SNP19	0.9 (22.5)	1.0 (25.3)	0.2 (5.8)	0.1 (1.8)	0.9 (24.0)	1.4 (35.5)	POM	White	100
SNP1910M4		0.9 (22.5)	1.0 (25.3)	0.2 (5.8)	0.1 (1.8)	0.9 (24.0)	1.4 (35.5)	POM	White	1000
SNP2210C2	SNP22	0.9 (23.3)	1.0 (26.6)	0.2 (5.9)	0.1 (1.8)	0.9 (23.4)	1.5 (37.0)	POM	White	100
SNP2210M4		0.9 (23.3)	1.0 (26.6)	0.2 (5.9)	0.1 (1.8)	0.9 (23.4)	1.5 (37.0)	POM	White	1000
SNP2410C2	SNP24	1.0 (25.2)	1.1 (28.3)	0.3 (7.4)	0.1 (1.8)	1.0 (26.0)	1.5 (38.6)	POM	White	100
SNP2410H4		1.0 (25.2)	1.1 (28.3)	0.3 (7.4)	0.1 (1.8)	1.0 (26.0)	1.5 (38.6)	POM	White	500
SNP2810C2	SNP28	1.1 (28.1)	1.3 (32.2)	0.3 (7.4)	0.1 (1.7)	1.0 (25.4)	1.6 (41.1)	POM	White	100
SNP2810H4		1.1 (28.1)	1.3 (32.2)	0.3 (7.4)	0.1 (1.7)	1.0 (25.4)	1.6 (41.1)	POM	White	500
SNP3210K2	SNP32	1.2 (30.8)	1.4 (35.2)	0.3 (7.3)	0.1 (1.7)	1.1 (26.7)	1.7 (43.4)	POM	White	50
SNP3210H4		1.2 (30.8)	1.4 (35.2)	0.3 (7.3)	0.1 (1.7)	1.1 (26.7)	1.7 (43.4)	POM	White	500
SNP3310K2	SNP33	1.3 (32.8)	1.6 (40.2)	0.3 (7.4)	0.1 (1.7)	1.6 (39.7)	2.5 (63.9)	POM	White	50
SNP3310H4		1.3 (32.8)	1.6 (40.2)	0.3 (7.4)	0.1 (1.7)	1.6 (41.5)	2.6 (65.1)	POM	White	500
SNP3410K2	SNP34	1.3 (33.7)	1.5 (39.2)	0.3 (7.5)	0.1 (1.7)	1.2 (30.0)	1.9 (49.5)	POM	White	50
SNP3410H4		1.3 (33.7)	1.5 (39.2)	0.3 (7.5)	0.1 (1.7)	1.2 (30.0)	1.9 (49.5)	POM	White	500
SNP3610H4	SNP36	1.5 (37.1)	1.7 (42.9)	0.3 (7.3)	0.1 (1.7)	1.2 (31.7)	2.0 (52.0)	POM	White	500
SNP3610K2		1.5 (37.1)	1.7 (42.9)	0.3 (7.3)	0.1 (1.7)	1.2 (31.7)	2.0 (52.0)	POM	White	50
SNP3810K2	SNP38	1.6 (41.0)	1.9 (47.9)	0.3 (7.3)	0.1 (1.7)	1.3 (34.2)	2.3 (57.7)	POM	White	50
SNP3810H4		1.6 (41.0)	1.9 (47.9)	0.3 (7.3)	0.1 (1.7)	1.3 (34.2)	2.3 (57.7)	POM	White	500
SNP42N10C2	SNP42N	1.7 (44.2)	2.0 (51.3)	0.3 (7.3)	0.1 (1.7)	1.4 (35.1)	2.3 (58.9)	POM	White	100
SNP42N10K2	SNP42	1.7 (44.2)	2.0 (51.3)	0.3 (7.3)	0.1 (1.7)	1.4 (35.1)	2.3 (58.9)	POM	White	50
SNP5010C2	SNP50	2.0 (50.6)	2.3 (59.0)	0.3 (7.3)	0.1 (1.7)	1.4 (35.7)	2.3 (57.2)	POM	White	100
SNP6010C2	SNP60	2.3 (57.4)	2.6 (65.6)	0.3 (7.4)	0.1 (1.7)	1.4 (36.8)	2.6 (65.0)	POM	White	100
SNP7010C2	SNP70	2.6 (66.7)	3.1 (78.7)	0.4 (9.5)	0.1 (2.0)	1.8 (46.1)	3.0 (76.3)	POM	White	100
SNP7010X2		2.6 (66.7)	3.1 (78.7)	0.4 (9.5)	0.1 (2.0)	1.8 (46.1)	3.0 (76.3)	POM	White	25
SNP7610C2	SNP76	2.9 (72.4)	3.2 (80.5)	0.4 (9.8)	0.1 (1.7)	1.8 (44.6)	2.8 (72.2)	POM	White	100
SNP8010C2	SNP80	3.1 (79.4)	3.5 (88.3)	0.4 (11.2)	0.1 (2.5)	1.9 (47.5)	3.1 (78.7)	POM	White	100
SNP9010C2	SNP90	3.5 (87.8)	3.8 (97.1)	0.4 (9.8)	0.1 (1.7)	1.9 (48.8)	3.2 (81.5)	POM	White	100
SNP10010X2	SNP100	3.8 (96.6)	4.2 (101.8)	0.4 (9.9)	0.1 (2.4)	2.0 (51.9)	3.5 (89.3)	POM	White	25
SNP10110X2	SNP101	4.0 (102.4)	4.6 (117.3)	0.4 (11.2)	0.1 (2.5)	2.4 (61.0)	4.2 (107.2)	POM	White	25

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

Acetal black is also available based upon minimum volume requirements. Snapper performance varies on application and environmental factors; end use testing is highly recommended.

### Hose Clamps

#### Snapper Hose Clamp Tools

Snapper installation tools are available in both pneumatic and mechanical version. They are specifically developed to increase reliability, reduce operator fatigue and installation time.

#### Features and Benefits

- For efficient fixing of the snapper hose clips.



PART NO.	TYPE	Operation	Application	Description	Application Range	Material	Color	Pkg. Qty.
MSNP1-70	MSNP1-70	manually	Maintenance/Removal	Vertical stroke	1 - 70	MET, PL	Yellow	1
ASNP2-22	ASNP2-22	manually	Production	Vertical stroke	2 - 22	MET, PL	Blue	1
ASNP24-70	ASNP24-70	manually	Production	Vertical stroke	24 - 70	MET, PL	Red	1
PSNP2-22	PSNP2-22	pneumatic	Production	Vertical stroke	2 - 22	MET	Black, Metal	1
PHSNP2-36	PHSNP2-36	pneumatic	Production	Horizontal stroke	2 - 36	MET	Metal	1
PHSNP38-100	PHSNP38-100	pneumatic	Production	Horizontal stroke	38 - 100	MET	Metal	1

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

# Bundling and Securing

## Clamps

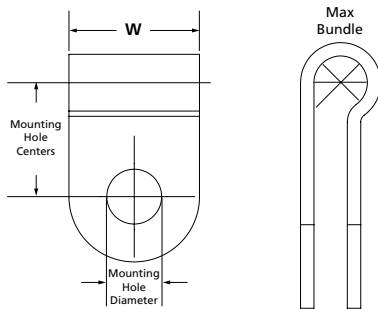
### Plastic P-Clamps

#### HP-Series

HellermannTyton P-Clamps easily guide and locate wires and cables. The clamps are designed with radius edges to prevent chafing and cutting into insulation. Available sizes up to 1" bundle diameters.

#### Features and Benefits

- P-Clamps easily guide and locate wire and cables up to 1" in diameter.
- Designed with a radius edge to prevent chafing and cutting into insulation.



PART NO.	TYPE	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Mounting Hole Centers in. (mm)	Mounting Hole Dia. in. (mm)	Material	Color	Pkg. Qty.
211-60019	H1P	0.1 (3.2)	0.4 (10.0)	0.3 (8.5)	0.2 (4.2)	PA66	Natural	1000
211-00261		0.1 (3.2)	0.4 (10.0)	0.3 (8.5)	0.2 (4.2)	PA66	Natural	100
211-60010		0.1 (3.2)	0.4 (10.0)	0.3 (8.5)	0.2 (4.2)	PA66HS	Black	1000
211-60000		0.1 (3.2)	0.4 (10.0)	0.3 (8.5)	0.2 (4.2)	PA66HS	Black	100
211-60029	H2P	0.2 (5.0)	0.4 (10.0)	0.4 (9.5)	0.2 (4.2)	PA66	Natural	1000
211-00263		0.2 (5.0)	0.4 (10.0)	0.4 (9.5)	0.2 (4.2)	PA66	Natural	100
211-60001		0.2 (5.0)	0.4 (10.0)	0.4 (9.5)	0.2 (4.2)	PA66HS	Black	100
211-00262		0.2 (5.0)	0.4 (10.0)	0.4 (9.5)	0.2 (4.2)	PA66HS	Black	1000
211-60039	H3P	0.3 (6.5)	0.4 (10.0)	0.4 (10.0)	0.2 (4.2)	PA66	Natural	1000
211-00264		0.3 (6.5)	0.4 (10.0)	0.4 (10.0)	0.2 (4.2)	PA66	Natural	100
211-60040		0.3 (6.5)	0.4 (10.0)	0.4 (10.0)	0.2 (4.2)	PA66HS	Black	1000
211-60002		0.3 (6.5)	0.4 (10.0)	0.4 (10.0)	0.2 (4.2)	PA66HS	Black	100
211-60049	H4P	0.3 (8.0)	0.4 (10.0)	0.4 (10.0)	0.2 (4.2)	PA66	Natural	1000
211-60050		0.3 (8.0)	0.4 (10.0)	0.4 (10.0)	0.2 (4.2)	PA66HS	Black	1000
211-60003		0.3 (8.0)	0.4 (10.0)	0.4 (10.0)	0.2 (4.2)	PA66HS	Black	100
211-00266	H5P	0.4 (9.5)	0.4 (10.0)	0.4 (11.0)	0.2 (4.2)	PA66	Black	1000
211-60059		0.4 (9.5)	0.4 (10.0)	0.4 (11.0)	0.2 (4.2)	PA66	Natural	1000
211-00267		0.4 (9.5)	0.4 (10.0)	0.4 (11.0)	0.2 (4.2)	PA66	Natural	100
211-60004		0.4 (9.5)	0.4 (10.0)	0.4 (11.0)	0.2 (4.2)	PA66HS	Black	100
211-60061	H6P	0.4 (11.0)	0.4 (10.0)	0.5 (13.0)	0.2 (4.2)	PA66HS	Black	1000
211-60005		0.4 (11.0)	0.4 (10.0)	0.5 (13.0)	0.2 (4.2)	PA66HS	Black	100

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



## Plastic P-Clamps

### HP-Series

PART NO.	TYPE	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Mounting Hole Centers in. (mm)	Mounting Hole Dia. in. (mm)	Material	Color	Pkg. Qty.
211-60079	H7P	0.5 (12.5)	0.4 (10.0)	0.6 (14.0)	0.2 (4.2)	PA66	Natural	1000
211-00269		0.5 (12.5)	0.4 (10.0)	0.6 (14.0)	0.2 (4.2)	PA66	Natural	100
211-60078		0.5 (12.5)	0.4 (10.0)	0.6 (14.0)	0.2 (4.2)	PA66HS	Black	1000
211-60006		0.5 (12.5)	0.4 (10.0)	0.6 (14.0)	0.2 (4.2)	PA66HS	Black	100
211-60089	H8P	0.6 (14.0)	0.4 (10.0)	0.6 (15.0)	0.2 (4.2)	PA66	Natural	1000
211-60090		0.6 (14.0)	0.4 (10.0)	0.6 (15.0)	0.2 (4.2)	PA66HS	Black	1000
211-60007		0.6 (14.0)	0.4 (10.0)	0.6 (15.0)	0.2 (4.2)	PA66HS	Black	100
211-60099	H9P	0.6 (16.0)	0.4 (10.0)	0.6 (16.0)	0.2 (4.2)	PA66	Natural	1000
211-00271		0.6 (16.0)	0.4 (10.0)	0.6 (16.0)	0.2 (4.2)	PA66	Natural	100
211-60008		0.6 (16.0)	0.4 (10.0)	0.6 (16.0)	0.2 (4.2)	PA66HS	Black	100
211-60009	H10P	0.7 (17.5)	0.4 (10.0)	0.7 (17.0)	0.2 (4.2)	PA66HS	Black	100
211-60130	H12P	0.8 (20.5)	0.4 (10.0)	0.8 (19.0)	0.2 (4.2)	PA66HS	Black	1000
211-60140	H13P	0.9 (22.0)	0.5 (12.0)	0.8 (20.5)	0.2 (5.2)	PA66HS	Black	1000
211-60150	H14P	1.0 (24.0)	0.5 (12.0)	0.9 (21.5)	0.2 (5.2)	PA66HS	Black	1000
211-60160	H15P	1.0 (25.5)	0.5 (12.0)	0.9 (23.0)	0.2 (5.2)	PA66HS	Black	1000

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

# Bundling and Securing

## Clamps

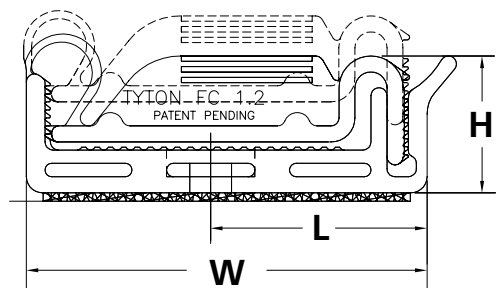
### Flat Ribbon Clamps

#### Dual Adjustable Flat Ribbon Cable Clamps - Adhesive Mount

HellermannTyton's flat ribbon clamps route, protect, and secure flat ribbon cables without damage to sensitive wires and cables. The unique, adjustable height feature allows the clamp to close to the exact height of the ribbon cable, using only as much force as needed to secure the cable. The releasable feature allows simple opening when access to the cable is necessary.

#### Features and Benefits

- Adjustable height feature allows the clamp to close to the exact height of the ribbon cable.
- Releasable for easy access to cables when necessary.



PART NO.	TYPE	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Max. Cable Width in. (mm)	Material	Color	Pkg. Qty.
FC1.2AK2	FC1.2A	0.8 (19.0)	1.5 (38.1)	0.5 (12.7)	1.2 (30.5)	PA66	Gray	50
FC1.2AH4		0.8 (19.0)	1.5 (38.1)	0.5 (12.7)	1.2 (30.5)	PA66	Gray	500
FC2.2AK2	FC2.2A	0.8 (19.0)	2.6 (66.0)	0.5 (12.7)	2.2 (55.9)	PA66	Gray	50
FC2.2AH4		0.8 (19.0)	2.6 (66.0)	0.5 (12.7)	2.2 (55.9)	PA66	Gray	500

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

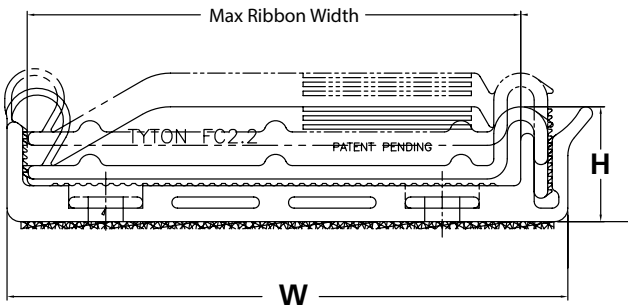
### Flat Ribbon Clamps

#### Dual Adjustable Flat Ribbon Cable Clamps - Screw Mount

HellermannTyton's flat ribbon clamps route, protect and secure flat ribbon cables without damage to sensitive wires and cables. The unique, adjustable height feature allows the clamp to close to the exact height of the ribbon cable, using only as much force as needed to secure the cable. The releasable feature allows simple opening when access to the cable is necessary.

#### Features and Benefits

- Adjustable-height feature allows the clamp to close to the exact height of the ribbon cable.
- Releasable for easy access to cables when necessary.



PART NO.	TYPE	Length in. (mm)	Width (W) in. (mm)	Width in. (mm)	Height (H) in. (mm)	Mounting Hole Dia. in. (mm)	Max. Cable Width in. (mm)	Material	Color	Pkg. Qty.
FC1.2K2	FC1.2	0.8 (19.0)	1.5 (38.1)	1.6 (41.2)	0.5 (12.7)	0.2 (4.0)	1.2 (30.5)	PA66	Gray	50
FC2.2K2	FC2.2	0.8 (19.0)	2.6 (66.0)	1.5 (38.1)	0.5 (12.7)	0.2 (4.0)	2.2 (55.9)	PA66	Gray	50
FC2.2H4		0.8 (19.0)	2.6 (66.0)	1.5 (38.1)	0.5 (12.7)	0.2 (4.0)	2.2 (55.9)	PA66	Gray	500

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

# Bundling and Securing

## Clamps

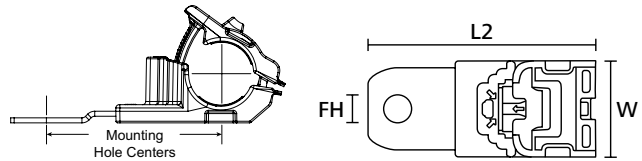
### Ratchet P-Clamps

**Size A - For bundle diameters from ¼" to ½" (6.2 mm to 13.7 mm)**

The Ratchet P-Clamp family offers versatility when managing wires, cables and hoses. The robust design and durable materials make it ideal for heavy duty applications, both indoors and out. The one-piece adjustable clamp can be closed by hand to the desired diameter. The release feature provides easy and nondestructive removal of cables simply by using a flat-head screwdriver. This nondestructive release allows the clamp to be reused without removing or replacing any bolts or screws. The Ratchet P-Clamp is offered in four sizes and multiple mounting configurations.

#### Features and Benefits

- One-piece ratchet closure design allows for easy installation during pre- or final assembly.
- Four sizes and multiple configurations handle a wide range of diameters and applications, reducing part inventory.
- Clamp interior is designed to guide and center bundle to reduce pinching.
- Easy release feature allows for quick adjustments and maintenance.
- Impact modified, heat and UV stabilized PA66 provides long-term durability, indoors and out.
- Steel mounting plate tolerates high torque mounting and is treated to resist chemicals and salt spray.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Centers in. (mm)	Mounting Hole Dia. in. (mm)	Angle/Length	Length (L2) in. (mm)	Width (W) in. (mm)	Material	Pkg. Qty.
151-01640*	RCA15SM6	100.0 (445.0)	2.2 (54.7)	0.3 (6.5)	15 ° Short	3.4 (86.9)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	300
151-01425*	RCA15SM8	100.0 (445.0)	2.2 (54.7)	0.3 (8.31)	15 ° Short	3.4 (86.9)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	300
151-01426*	RCA15SM10	100.0 (445.0)	2.2 (54.7)	0.4 (10.29)	15 ° Short	3.4 (86.9)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	300
151-01427*	RCA15SM12	100.0 (445.0)	2.2 (54.7)	0.5 (12.95)	15 ° Short	3.4 (86.9)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	300
151-01642*	RCA30LM6	100.0 (445.0)	2.9 (72.4)	0.3 (6.5)	30 ° Long	4.1 (103.2)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01431*	RCA30LM8	100.0 (445.0)	2.9 (72.4)	0.3 (8.31)	30 ° Long	4.1 (103.2)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01432*	RCA30LM10	100.0 (445.0)	2.9 (72.4)	0.4 (10.29)	30 ° Long	4.1 (103.2)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01433*	RCA30LM12	100.0 (445.0)	2.9 (72.4)	0.5 (12.95)	30 ° Long	4.1 (103.2)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01641*	RCA30SM6	100.0 (445.0)	1.9 (47.7)	0.3 (6.5)	30 ° Short	3.1 (78.5)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	300
151-01428*	RCA30SM8	100.0 (445.0)	1.9 (47.7)	0.3 (8.31)	30 ° Short	3.1 (78.5)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	300
151-01429*	RCA30SM10	100.0 (445.0)	1.9 (47.7)	0.4 (10.29)	30 ° Short	3.1 (78.5)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	300

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

\*This product meets UL standards. Please see appendix for specific file numbers.



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### Ratchet P-Clamps

**Size A - For bundle diameters from ¼" to ½" (6.2 mm to 13.7 mm)**

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Centers in. (mm)	Mounting Hole Dia. in. (mm)	Angle/Length	Length (L2) in. (mm)	Width (W) in. (mm)	Material	Pkg. Qty.
151-01430*	RCA30SM12	100.0 (445.0)	1.9 (47.7)	0.5 (12.95)	30 ° Short	3.1 (78.5)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	300
151-01644*	RCA90LM6	100.0 (445.0)	1.0 (24.9)	0.3 (6.5)	90 ° Long	3.8 (96.8)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01437*	RCA90LM8	100.0 (445.0)	1.0 (24.9)	0.3 (8.31)	90 ° Long	3.8 (96.8)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01438*	RCA90LM10	100.0 (445.0)	1.0 (24.9)	0.4 (10.29)	90 ° Long	3.8 (96.8)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01439*	RCA90LM12	100.0 (445.0)	1.0 (24.9)	0.5 (12.95)	90 ° Long	3.8 (96.8)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01643*	RCA90SM6	100.0 (445.0)	1.0 (24.9)	0.3 (6.5)	90 ° Short	2.7 (68.8)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	300
151-01434*	RCA90SM8	100.0 (445.0)	1.0 (24.9)	0.3 (8.31)	90 ° Short	2.7 (68.8)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	300
151-01435*	RCA90SM10	100.0 (445.0)	1.0 (24.9)	0.4 (10.29)	90 ° Short	2.7 (68.8)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	300
151-01436*	RCA90SM12	100.0 (445.0)	1.0 (24.9)	0.5 (12.95)	90 ° Short	2.7 (68.8)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	300
151-01639*	RCA180LM6	100.0 (445.0)	4.0 (101.5)	0.3 (6.5)	180 ° Long	5.3 (134.1)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01422*	RCA180LM8	100.0 (445.0)	4.0 (101.5)	0.3 (8.31)	180 ° Long	5.3 (134.1)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01423*	RCA180LM10	100.0 (445.0)	4.0 (101.5)	0.4 (10.29)	180 ° Long	5.3 (134.1)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01424*	RCA180LM12	100.0 (445.0)	4.0 (101.5)	0.5 (12.95)	180 ° Long	5.3 (134.1)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01638*	RCA180MM6	100.0 (445.0)	2.9 (72.5)	0.3 (6.5)	180 ° Medium	4.1 (105.1)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01419*	RCA180MM8	100.0 (445.0)	2.9 (72.5)	0.3 (8.31)	180 ° Medium	4.1 (105.1)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01420*	RCA180MM10	100.0 (445.0)	2.9 (72.5)	0.4 (10.29)	180 ° Medium	4.1 (105.1)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01421*	RCA180MM12	100.0 (445.0)	2.9 (72.5)	0.5 (12.95)	180 ° Medium	4.1 (105.1)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01637*	RCA180SM6	100.0 (445.0)	2.0 (50.5)	0.3 (6.5)	180 ° Short	3.3 (83.1)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	300
151-01670*		100.0 (445.0)	2.0 (50.5)	0.3 (6.5)	180 ° Short	3.3 (83.1)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	5
151-01416*	RCA180SM8	100.0 (445.0)	2.0 (50.5)	0.3 (8.31)	180 ° Short	3.3 (83.1)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	300

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

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# Bundling and Securing

## Clamps

### Ratchet P-Clamps

**Size A - For bundle diameters from ¼" to ½" (6.2 mm to 13.7 mm)**

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Centers in. (mm)	Mounting Hole Dia. in. (mm)	Angle/Length	Length (L2) in. (mm)	Width (W) in. (mm)	Material	Pkg. Qty.
151-01417*	RCA180SM10	100.0 (445.0)	2.0 (50.5)	0.4 (10.29)	180 ° Short	3.3 (83.1)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	300
151-01418*	RCA180SM12	100.0 (445.0)	2.0 (50.5)	0.5 (12.95)	180 ° Short	3.3 (83.1)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	300

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

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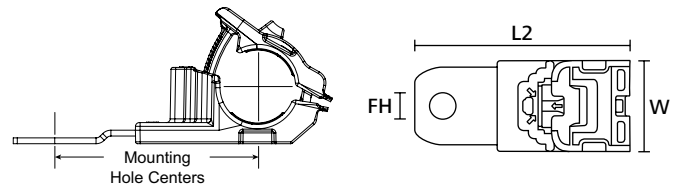
### Ratchet P-Clamps

**Size B - For bundle diameters from 1/2" to 3/4" (12.7 mm to 19.5 mm)**

The Ratchet P-Clamp family offers versatility when managing wires, cables and hoses. The robust design and durable materials make it ideal for heavy duty applications, both indoors and out. The one-piece adjustable clamp can be closed by hand to the desired diameter. The release feature provides easy and nondestructive removal of cables simply by using a flat-head screwdriver. This nondestructive release allows the clamp to be reused without removing or replacing any bolts or screws. The Ratchet P-Clamp is offered in four sizes and multiple mounting configurations.

#### Features and Benefits

- One-piece ratchet closure design allows for easy installation during pre- or final assembly.
- Four sizes and multiple configurations handle a wide range of diameters and applications, reducing part inventory.
- Clamp interior is designed to guide and center bundle to reduce pinching.
- Easy release feature allows for quick adjustments and maintenance.
- Impact modified, heat and UV stabilized PA66 provides long-term durability, indoors and out.
- Steel mounting plate tolerates high torque mounting and is treated to resist chemicals and salt spray.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Centers in. (mm)	Mounting Hole Dia. in. (mm)	Angle/Length	Length (L2) in. (mm)	Width (W) in. (mm)	Material	Pkg. Qty.
151-01648*	RCB15SM6	100.0 (445.0)	2.2 (56.5)	0.3 (6.5)	15 ° Short	3.4 (86.9)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	280
151-01448*	RCB15SM8	100.0 (445.0)	2.2 (56.5)	0.3 (8.31)	15 ° Short	3.4 (86.9)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	280
151-01449*	RCB15SM10	100.0 (445.0)	2.2 (56.5)	0.4 (10.29)	15 ° Short	3.4 (86.9)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	280
151-01450*	RCB15SM12	100.0 (445.0)	2.2 (56.5)	0.5 (12.95)	15 ° Short	3.4 (86.9)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	280
151-01650*	RCB30LM6	100.0 (445.0)	2.9 (73.5)	0.3 (6.5)	30 ° Long	4.1 (103.2)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01454*	RCB30LM8	100.0 (445.0)	2.9 (73.5)	0.3 (8.31)	30 ° Long	4.1 (103.2)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01455*	RCB30LM10	100.0 (445.0)	2.9 (73.5)	0.4 (10.29)	30 ° Long	4.1 (103.2)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01456*	RCB30LM12	100.0 (445.0)	2.9 (73.5)	0.5 (12.95)	30 ° Long	4.1 (103.2)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01649*	RCB30SM6	100.0 (445.0)	1.9 (48.8)	0.3 (6.5)	30 ° Short	3.1 (78.5)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	280
151-01451*	RCB30SM8	100.0 (445.0)	1.9 (48.8)	0.3 (8.31)	30 ° Short	3.1 (78.5)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	280

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# Bundling and Securing

## Clamps

### Ratchet P-Clamps

Size B - For bundle diameters from ½" to ¾" (12.7 mm to 19.5 mm)

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Centers in. (mm)	Mounting Hole Dia. in. (mm)	Angle/Length	Length (L2) in. (mm)	Width (W) in. (mm)	Material	Pkg. Qty.
151-01452*	RCB30SM10	100.0 (445.0)	1.9 (48.8)	0.4 (10.29)	30 ° Short	3.1 (78.5)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	280
151-01453*	RCB30SM12	100.0 (445.0)	1.9 (48.8)	0.5 (12.95)	30 ° Short	3.1 (78.5)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	280
151-01652*	RCB90LM6	100.0 (445.0)	1.1 (26.7)	0.3 (6.5)	90 ° Long	3.8 (96.8)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01460*	RCB90LM8	100.0 (445.0)	1.1 (26.7)	0.3 (8.31)	90 ° Long	3.8 (96.8)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01461*	RCB90LM10	100.0 (445.0)	1.1 (26.7)	0.4 (10.29)	90 ° Long	3.8 (96.8)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01462*	RCB90LM12	100.0 (445.0)	1.1 (26.7)	0.5 (12.95)	90 ° Long	3.8 (96.8)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01651*	RCB90SM6	100.0 (445.0)	1.1 (26.7)	0.3 (6.5)	90 ° Short	2.7 (68.8)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	280
151-01457*	RCB90SM8	100.0 (445.0)	1.1 (26.7)	0.3 (8.31)	90 ° Short	2.7 (68.8)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	280
151-01458*	RCB90SM10	100.0 (445.0)	1.1 (26.7)	0.4 (10.29)	90 ° Short	2.7 (68.8)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	280
151-01459*	RCB90SM12	100.0 (445.0)	1.1 (26.7)	0.5 (12.95)	90 ° Short	2.7 (68.8)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	280
151-01647*	RCB180LM6	100.0 (445.0)	4.1 (103.8)	0.3 (6.5)	180 ° Long	5.3 (134.1)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01445*	RCB180LM8	100.0 (445.0)	4.1 (103.8)	0.3 (8.31)	180 ° Long	5.3 (134.1)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01446*	RCB180LM10	100.0 (445.0)	4.1 (103.8)	0.4 (10.29)	180 ° Long	5.3 (134.1)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01447*	RCB180LM12	100.0 (445.0)	4.1 (103.8)	0.5 (12.95)	180 ° Long	5.3 (134.1)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01646*	RCB180MM6	100.0 (445.0)	2.9 (74.8)	0.3 (6.5)	180 ° Medium	4.1 (105.1)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01442*	RCB180MM8	100.0 (445.0)	2.9 (74.8)	0.3 (8.31)	180 ° Medium	4.1 (105.1)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01443*	RCB180MM10	100.0 (445.0)	2.9 (74.8)	0.4 (10.29)	180 ° Medium	4.1 (105.1)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01444*	RCB180MM12	100.0 (445.0)	2.9 (74.8)	0.5 (12.95)	180 ° Medium	4.1 (105.1)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	200
151-01645*	RCB180SM6	100.0 (445.0)	2.1 (52.8)	0.3 (6.5)	180 ° Short	3.3 (83.1)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	280
151-01671*		100.0 (445.0)	2.1 (52.8)	0.3 (6.5)	180 ° Short	3.3 (83.1)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	5
151-01440*	RCB180SM8	100.0 (445.0)	2.1 (52.8)	0.3 (8.31)	180 ° Short	3.3 (83.1)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	280
151-01390*	RCB180SM10	100.0 (445.0)	2.1 (52.8)	0.4 (10.29)	180 ° Short	3.3 (83.1)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	280
151-01441*	RCB180SM12	100.0 (445.0)	2.1 (52.8)	0.5 (12.95)	180 ° Short	3.3 (83.1)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	280

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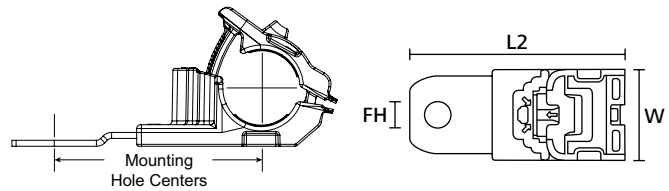
### Ratchet P-Clamps

**Size C - For bundle diameters from ¾" to 1 ⅜" (19.4 mm to 36.0 mm)**

The Ratchet P-Clamp family offers versatility when managing wires, cables and hoses. The robust design and durable materials make it ideal for heavy duty applications, both indoors and out. The one-piece adjustable clamp can be closed by hand to the desired diameter. The release feature provides easy and nondestructive removal of cables simply by using a flat-head screwdriver. This nondestructive release allows the clamp to be reused without removing or replacing any bolts or screws. The Ratchet P-Clamp is offered in four sizes and multiple mounting configurations.

#### Features and Benefits

- One-piece ratchet closure design allows for easy installation during pre- or final assembly.
- Four sizes and multiple configurations handle a wide range of diameters and applications, reducing part inventory.
- Clamp interior is designed to guide and center bundle to reduce pinching.
- Easy release feature allows for quick adjustments and maintenance.
- Impact modified, heat and UV stabilized PA66 provides long-term durability, indoors and out.
- Steel mounting plate tolerates high torque mounting and is treated to resist chemicals and salt spray.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Centers in. (mm)	Mounting Hole Dia. in. (mm)	Angle/Length	Length (L2) in. (mm)	Width (W) in. (mm)	Material	Pkg. Qty.
151-01656*	RCC15SM6	100.0 (445.0)	2.5 (62.3)	0.3 (6.5)	15 ° Short	4.1 (103.5)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01483*	RCC15SM8	100.0 (445.0)	2.5 (62.3)	0.3 (8.31)	15 ° Short	4.1 (103.5)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01484*	RCC15SM10	100.0 (445.0)	2.5 (62.3)	0.4 (10.29)	15 ° Short	4.1 (103.5)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01485*	RCC15SM12	100.0 (445.0)	2.5 (62.3)	0.5 (12.95)	15 ° Short	4.1 (103.5)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01658*	RCC30LM6	100.0 (445.0)	3.0 (75.2)	0.3 (6.5)	30 ° Long	4.5 (114.9)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01489*	RCC30LM8	100.0 (445.0)	3.0 (75.2)	0.3 (8.31)	30 ° Long	4.5 (114.9)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01490*	RCC30LM10	100.0 (445.0)	3.0 (75.2)	0.4 (10.29)	30 ° Long	4.5 (114.9)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01491*	RCC30LM12	100.0 (445.0)	3.0 (75.2)	0.5 (12.95)	30 ° Long	4.5 (114.9)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01657*	RCC30SM6	100.0 (445.0)	2.0 (50.5)	0.3 (6.5)	30 ° Short	3.6 (90.2)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01486*	RCC30SM8	100.0 (445.0)	2.0 (50.5)	0.3 (8.31)	30 ° Short	3.6 (90.2)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01487*	RCC30SM10	100.0 (445.0)	2.0 (50.5)	0.4 (10.29)	30 ° Short	3.6 (90.2)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160

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# Bundling and Securing

## Clamps

### Ratchet P-Clamps

Size C - For bundle diameters from 3/4" to 1 3/8" (19.4 mm to 36.0 mm)

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Centers in. (mm)	Mounting Hole Dia. in. (mm)	Angle/Length	Length (L2) in. (mm)	Width (W) in. (mm)	Material	Pkg. Qty.
151-01488*	RCC30SM12	100.0 (445.0)	2.0 (50.5)	0.5 (12.95)	30 ° Short	3.6 (90.2)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01660*	RCC90LM6	100.0 (445.0)	1.6 (39.9)	0.3 (6.5)	90 ° Long	5.1 (129.2)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01495*	RCC90LM8	100.0 (445.0)	1.6 (39.9)	0.3 (8.31)	90 ° Long	5.1 (129.2)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01496*	RCC90LM10	100.0 (445.0)	1.6 (39.9)	0.4 (10.29)	90 ° Long	5.1 (129.2)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01497*	RCC90LM12	100.0 (445.0)	1.6 (39.9)	0.5 (12.95)	90 ° Long	5.1 (129.2)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01659*	RCC90SM6	100.0 (445.0)	1.6 (39.9)	0.3 (6.5)	90 ° Short	4.0 (101.2)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01492*	RCC90SM8	100.0 (445.0)	1.6 (39.9)	0.3 (8.31)	90 ° Short	4.0 (101.2)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01493*	RCC90SM10	100.0 (445.0)	1.6 (39.9)	0.4 (10.29)	90 ° Short	4.0 (101.2)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01494*	RCC90SM12	100.0 (445.0)	1.6 (39.9)	0.5 (12.95)	90 ° Short	4.0 (101.2)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01655*	RCC180LM6	100.0 (445.0)	4.5 (113.3)	0.3 (6.5)	180 ° Long	6.1 (154.0)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01480*	RCC180LM8	100.0 (445.0)	4.5 (113.3)	0.3 (8.31)	180 ° Long	6.1 (154.0)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01481*	RCC180LM10	100.0 (445.0)	4.5 (113.3)	0.4 (10.29)	180 ° Long	6.1 (154.0)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01482*	RCC180LM12	100.0 (445.0)	4.5 (113.3)	0.5 (12.95)	180 ° Long	6.1 (154.0)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01654*	RCC180MM6	100.0 (445.0)	3.3 (84.3)	0.3 (6.5)	180 ° Medium	4.9 (125.0)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01477*	RCC180MM8	100.0 (445.0)	3.3 (84.3)	0.3 (8.31)	180 ° Medium	4.9 (125.0)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01478*	RCC180MM10	100.0 (445.0)	3.3 (84.3)	0.4 (10.29)	180 ° Medium	4.9 (125.0)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01479*	RCC180MM12	100.0 (445.0)	3.3 (84.3)	0.5 (12.95)	180 ° Medium	4.9 (125.0)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01653*	RCC180SM6	100.0 (445.0)	2.5 (62.3)	0.3 (6.5)	180 ° Short	4.1 (103.0)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01672*		100.0 (445.0)	2.5 (62.3)	0.3 (6.5)	180 ° Short	4.1 (103.0)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	3
151-01474*	RCC180SM8	100.0 (445.0)	2.5 (62.3)	0.3 (8.31)	180 ° Short	4.1 (103.0)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01475*	RCC180SM10	100.0 (445.0)	2.5 (62.3)	0.4 (10.29)	180 ° Short	4.1 (103.0)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01476*	RCC180SM12	100.0 (445.0)	2.5 (62.3)	0.5 (12.95)	180 ° Short	4.1 (103.0)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160

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

\*This product meets UL standards. Please see appendix for specific file numbers.



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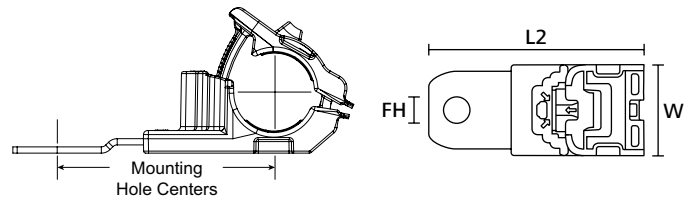
### Ratchet P-Clamps

**Size D - For bundle diameters from 1 3/8" to 2" (36.0 mm to 51.0 mm)**

The Ratchet P-Clamp family offers versatility when managing wires, cables and hoses. The robust design and durable materials make it ideal for heavy duty applications, both indoors and out. The one-piece adjustable clamp can be closed by hand to the desired diameter. The release feature provides easy and nondestructive removal of cables simply by using a flat-head screwdriver. This nondestructive release allows the clamp to be reused without removing or replacing any bolts or screws. The Ratchet P-Clamp is offered in four sizes and multiple mounting configurations.

#### Features and Benefits

- One-piece ratchet closure design allows for easy installation during pre- or final assembly.
- Four sizes and multiple configurations handle a wide range of diameters and applications, reducing part inventory.
- Clamp interior is designed to guide and center bundle to reduce pinching.
- Easy release feature allows for quick adjustments and maintenance.
- Impact modified, heat and UV stabilized PA66 provides long-term durability, indoors and out.
- Steel mounting plate tolerates high torque mounting and is treated to resist chemicals and salt spray.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Centers in. (mm)	Mounting Hole Dia. in. (mm)	Angle/Length	Length (L2) in. (mm)	Width (W) in. (mm)	Material	Pkg. Qty.
151-01664*	RCD15SM6	100.0 (445.0)	2.7 (69.1)	0.3 (6.5)	15 ° Short	4.6 (115.9)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01509*	RCD15SM8	100.0 (445.0)	2.7 (69.1)	0.3 (8.31)	15 ° Short	4.6 (115.9)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01510*	RCD15SM10	100.0 (445.0)	2.7 (69.1)	0.4 (10.29)	15 ° Short	4.6 (115.9)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01511*	RCD15SM12	100.0 (445.0)	2.7 (69.1)	0.5 (12.95)	15 ° Short	4.6 (115.9)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01666*	RCD30LM6	100.0 (445.0)	3.2 (80.5)	0.3 (6.5)	30 ° Long	5.0 (127.0)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01515*	RCD30LM8	100.0 (445.0)	3.2 (80.5)	0.3 (8.31)	30 ° Long	5.0 (127.0)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01516*	RCD30LM10	100.0 (445.0)	3.2 (80.5)	0.4 (10.29)	30 ° Long	5.0 (127.0)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01517*	RCD30LM12	100.0 (445.0)	3.2 (80.5)	0.5 (12.95)	30 ° Long	5.0 (127.0)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01665*	RCD30SM6	100.0 (445.0)	2.2 (55.9)	0.3 (6.5)	30 ° Short	4.0 (102.4)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01512*	RCD30SM8	100.0 (445.0)	2.2 (55.9)	0.3 (8.31)	30 ° Short	4.0 (102.4)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01513*	RCD30SM10	100.0 (445.0)	2.2 (55.9)	0.4 (10.29)	30 ° Short	4.0 (102.4)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160

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

\*This product meets UL standards. Please see appendix for specific file numbers.



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# Bundling and Securing

## Clamps

### Ratchet P-Clamps

Size D - For bundle diameters from 1 3/8" to 2" (36.0 mm to 51.0 mm)

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Centers in. (mm)	Mounting Hole Dia. in. (mm)	Angle/Length	Length (L2) in. (mm)	Width (W) in. (mm)	Material	Pkg. Qty.
151-01514*	RCD30SM12	100.0 (445.0)	2.2 (55.9)	0.5 (12.95)	30 ° Short	4.0 (102.4)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01628*	RCD90LM6	100.0 (445.0)	1.7 (42.4)	0.3 (6.5)	90 ° Long	4.6 (116.7)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01521*	RCD90LM8	100.0 (445.0)	1.7 (42.4)	0.3 (8.31)	90 ° Long	4.6 (116.7)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01522*	RCD90LM10	100.0 (445.0)	1.7 (42.4)	0.4 (10.29)	90 ° Long	4.6 (116.7)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01523*	RCD90LM12	100.0 (445.0)	1.7 (42.4)	0.5 (12.95)	90 ° Long	4.6 (116.7)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01667*	RCD90SM6	100.0 (445.0)	1.7 (42.4)	0.3 (6.5)	90 ° Short	3.5 (88.7)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01518*	RCD90SM8	100.0 (445.0)	1.7 (42.4)	0.3 (8.31)	90 ° Short	3.5 (88.7)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01519*	RCD90SM10	100.0 (445.0)	1.7 (42.4)	0.4 (10.29)	90 ° Short	3.5 (88.7)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01520*	RCD90SM12	100.0 (445.0)	1.7 (42.4)	0.5 (12.95)	90 ° Short	3.5 (88.7)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01663*	RCD180LM6	100.0 (445.0)	4.8 (121.0)	0.3 (6.5)	180 ° Long	6.6 (166.5)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01506*	RCD180LM8	100.0 (445.0)	4.8 (121.0)	0.3 (8.31)	180 ° Long	6.6 (166.5)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01507*	RCD180LM10	100.0 (445.0)	4.8 (121.0)	0.4 (10.29)	180 ° Long	6.6 (166.5)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01508*	RCD180LM12	100.0 (445.0)	4.8 (121.0)	0.5 (12.95)	180 ° Long	6.6 (166.5)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01662*	RCD180MM6	100.0 (445.0)	3.6 (92.0)	0.3 (6.5)	180 ° Medium	5.4 (137.5)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01503*	RCD180MM8	100.0 (445.0)	3.6 (92.0)	0.3 (8.31)	180 ° Medium	5.4 (137.5)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01504*	RCD180MM10	100.0 (445.0)	3.6 (92.0)	0.4 (10.29)	180 ° Medium	5.4 (137.5)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01505*	RCD180MM12	100.0 (445.0)	3.6 (92.0)	0.5 (12.95)	180 ° Medium	5.4 (137.5)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	140
151-01661*	RCD180SM6	100.0 (445.0)	2.8 (70.0)	0.3 (6.5)	180 ° Short	4.6 (115.5)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01673*		100.0 (445.0)	2.8 (70.0)	0.3 (6.5)	180 ° Short	4.6 (115.5)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	3
151-01499*	RCD180SM8	100.0 (445.0)	2.8 (70.0)	0.3 (8.31)	180 ° Short	4.6 (115.5)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01501*	RCD180SM10	100.0 (445.0)	2.8 (70.0)	0.4 (10.29)	180 ° Short	4.6 (115.5)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160
151-01502*	RCD180SM12	100.0 (445.0)	2.8 (70.0)	0.5 (12.95)	180 ° Short	4.6 (115.5)	1.4 (34.9)	PA66HIRHSUV, ST, ZN	160

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

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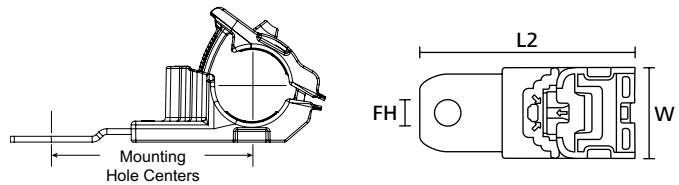
### Stainless Steel Ratchet P-Clamp

**Size A - For bundle diameters from ¼" to ½" (6.2 mm to 13.7 mm)**

The Ratchet P-Clamp family offers versatility when managing wires, cables and hoses. The robust design and durable materials make it ideal for heavy duty applications, both indoors and out. The one-piece adjustable clamp can be closed by hand to the desired diameter. The release feature provides easy and nondestructive removal of cables simply by using a flat-head screwdriver. This nondestructive release allows the clamp to be reused without removing or replacing any bolts or screws. The Ratchet P-Clamp is offered in four sizes and multiple mounting configurations.

#### Features and Benefits

- One-piece ratchet closure design allows for easy installation during pre- or final assembly.
- Four sizes and multiple configurations handle a wide range of diameters and applications, reducing part inventory.
- Clamp interior is designed to guide and center bundle to reduce pinching.
- Easy release feature allows for quick adjustments and maintenance.
- Impact modified, heat and UV stabilized PA66 provides long-term durability, indoors and out.
- Stainless steel mounting plate tolerates high torque mounting and resists galvanic corrosion with dissimilar metals and harsh chemicals.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Centers in. (mm)	Mounting Hole Dia. in. (mm)	Angle/Length	Length (L2) in. (mm)	Width (W) in. (mm)	Material	Pkg. Qty.
151-01923*	RCA15SM6SS	100.0 (445.0)	2.2 (54.7)	0.3 (6.5)	15 ° Short	3.4 (86.9)	1.4 (34.9)	PA66HIRHSUV, SS304	300
151-01924*	RCA15SM8SS	100.0 (445.0)	2.2 (54.7)	0.3 (8.31)	15 ° Short	3.4 (86.9)	1.4 (34.9)	PA66HIRHSUV, SS304	300
151-01925*	RCA15SM10SS	100.0 (445.0)	2.2 (54.7)	0.4 (10.29)	15 ° Short	3.4 (86.9)	1.4 (34.9)	PA66HIRHSUV, SS304	300
151-01926*	RCA15SM12SS	100.0 (445.0)	2.2 (54.7)	0.5 (12.95)	15 ° Short	3.4 (86.9)	1.4 (34.9)	PA66HIRHSUV, SS304	300
151-01931*	RCA30LM6SS	100.0 (445.0)	2.9 (72.4)	0.3 (6.5)	30 ° Long	4.1 (103.2)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01932*	RCA30LM8SS	100.0 (445.0)	2.9 (72.4)	0.3 (8.31)	30 ° Long	4.1 (103.2)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01933*	RCA30LM10SS	100.0 (445.0)	2.9 (72.4)	0.4 (10.29)	30 ° Long	4.1 (103.2)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01934*	RCA30LM12SS	100.0 (445.0)	2.9 (72.4)	0.5 (12.95)	30 ° Long	4.1 (103.2)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01927*	RCA30SM6SS	100.0 (445.0)	1.9 (47.7)	0.3 (6.5)	30 ° Short	3.1 (78.5)	1.4 (34.9)	PA66HIRHSUV, SS304	300
151-01928*	RCA30SM8SS	100.0 (445.0)	1.9 (47.7)	0.3 (8.31)	30 ° Short	3.1 (78.5)	1.4 (34.9)	PA66HIRHSUV, SS304	300
151-01929*	RCA30SM10SS	100.0 (445.0)	1.9 (47.7)	0.4 (10.29)	30 ° Short	3.1 (78.5)	1.4 (34.9)	PA66HIRHSUV, SS304	300

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

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# Bundling and Securing

## Clamps

### Stainless Steel Ratchet P-Clamp

Size A - For bundle diameters from ¼" to ½" (6.2 mm to 13.7 mm)

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Centers in. (mm)	Mounting Hole Dia. in. (mm)	Angle/Length	Length (L2) in. (mm)	Width (W) in. (mm)	Material	Pkg. Qty.
151-01930*	RCA30SM12SS	100.0 (445.0)	1.9 (47.7)	0.5 (12.95)	30 ° Short	3.1 (78.5)	1.4 (34.9)	PA66HIRHSUV, SS304	300
151-01939*	RCA90LM6SS	100.0 (445.0)	1.0 (24.9)	0.3 (6.5)	90 ° Long	3.8 (96.8)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01940*	RCA90LM8SS	100.0 (445.0)	1.0 (24.9)	0.3 (8.31)	90 ° Long	3.8 (96.8)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01941*	RCA90LM10SS	100.0 (445.0)	1.0 (24.9)	0.4 (10.29)	90 ° Long	3.8 (96.8)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01942*	RCA90LM12SS	100.0 (445.0)	1.0 (24.9)	0.5 (12.95)	90 ° Long	3.8 (96.8)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01935*	RCA90SM6SS	100.0 (445.0)	1.0 (24.9)	0.3 (6.5)	90 ° Short	2.7 (68.8)	1.4 (34.9)	PA66HIRHSUV, SS304	300
151-01936*	RCA90SM8SS	100.0 (445.0)	1.0 (24.9)	0.3 (8.31)	90 ° Short	2.7 (68.8)	1.4 (34.9)	PA66HIRHSUV, SS304	300
151-01937*	RCA90SM10SS	100.0 (445.0)	1.0 (24.9)	0.4 (10.29)	90 ° Short	2.7 (68.8)	1.4 (34.9)	PA66HIRHSUV, SS304	300
151-01938*	RCA90SM12SS	100.0 (445.0)	1.0 (24.9)	0.5 (12.95)	90 ° Short	2.7 (68.8)	1.4 (34.9)	PA66HIRHSUV, SS304	300
151-01919*	RCA180LM6SS	100.0 (445.0)	4.0 (101.5)	0.3 (6.5)	180 ° Long	5.3 (134.1)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01920*	RCA180LM8SS	100.0 (445.0)	4.0 (101.5)	0.3 (8.31)	180 ° Long	5.3 (134.1)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01921*	RCA180LM10SS	100.0 (445.0)	4.0 (101.5)	0.4 (10.29)	180 ° Long	5.3 (134.1)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01922*	RCA180LM12SS	100.0 (445.0)	4.0 (101.5)	0.5 (12.95)	180 ° Long	5.3 (134.1)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01915*	RCA180MM6SS	100.0 (445.0)	2.9 (72.5)	0.3 (6.5)	180 ° Medium	4.1 (105.1)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01916*	RCA180MM8SS	100.0 (445.0)	2.9 (72.5)	0.3 (8.31)	180 ° Medium	4.1 (105.1)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01917*	RCA180MM10SS	100.0 (445.0)	2.9 (72.5)	0.4 (10.29)	180 ° Medium	4.1 (105.1)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01918*	RCA180MM12SS	100.0 (445.0)	2.9 (72.5)	0.5 (12.95)	180 ° Medium	4.1 (105.1)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01911*	RCA180SM6SS	100.0 (445.0)	2.0 (50.5)	0.3 (6.5)	180 ° Short	3.3 (83.1)	1.4 (34.9)	PA66HIRHSUV, SS304	300
151-01912*	RCA180SM8SS	100.0 (445.0)	2.0 (50.5)	0.3 (8.31)	180 ° Short	3.3 (83.1)	1.4 (34.9)	PA66HIRHSUV, SS304	300
151-01913*	RCA180SM10SS	100.0 (445.0)	2.0 (50.5)	0.4 (10.29)	180 ° Short	3.3 (83.1)	1.4 (34.9)	PA66HIRHSUV, SS304	300
151-01914*	RCA180SM12SS	100.0 (445.0)	2.0 (50.5)	0.5 (12.95)	180 ° Short	3.3 (83.1)	1.4 (34.9)	PA66HIRHSUV, SS304	300

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

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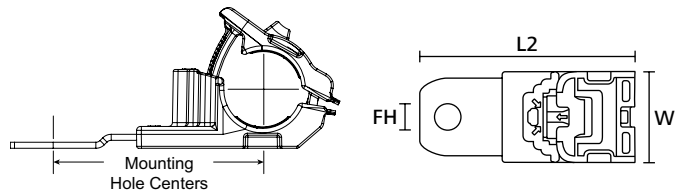
### Stainless Steel Ratchet P-Clamp

**Size B - For bundle diameters from ½" to ¾" (12.7 mm to 19.5 mm)**

The Ratchet P-Clamp family offers versatility when managing wires, cables and hoses. The robust design and durable materials make it ideal for heavy duty applications, both indoors and out. The one-piece adjustable clamp can be closed by hand to the desired diameter. The release feature provides easy and nondestructive removal of cables simply by using a flat-head screwdriver. This nondestructive release allows the clamp to be reused without removing or replacing any bolts or screws. The Ratchet P-Clamp is offered in four sizes and multiple mounting configurations.

#### Features and Benefits

- One-piece ratchet closure design allows for easy installation during pre- or final assembly.
- Four sizes and multiple configurations handle a wide range of diameters and applications, reducing part inventory.
- Clamp interior is designed to guide and center bundle to reduce pinching.
- Easy release feature allows for quick adjustments and maintenance.
- Impact modified, heat and UV stabilized PA66 provides long-term durability, indoors and out.
- Stainless steel mounting plate tolerates high torque mounting, resists galvanic corrosion with dissimilar metals, and harsh chemicals.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Centers in. (mm)	Mounting Hole Dia. in. (mm)	Angle/Length	Length (L2) in. (mm)	Width (W) in. (mm)	Material	Pkg. Qty.
151-01955*	RCB15SM6SS	100.0 (445.0)	2.2 (56.5)	0.3 (6.5)	15 ° Short	3.4 (86.9)	1.4 (34.9)	PA66HIRHSUV, SS304	280
151-01956*	RCB15SM8SS	100.0 (445.0)	2.2 (56.5)	0.3 (8.31)	15 ° Short	3.4 (86.9)	1.4 (34.9)	PA66HIRHSUV, SS304	280
151-01957*	RCB15SM10SS	100.0 (445.0)	2.2 (56.5)	0.4 (10.29)	15 ° Short	3.4 (86.9)	1.4 (34.9)	PA66HIRHSUV, SS304	280
151-01958*	RCB15SM12SS	100.0 (445.0)	2.2 (56.5)	0.5 (12.95)	15 ° Short	3.4 (86.9)	1.4 (34.9)	PA66HIRHSUV, SS304	280
151-01963*	RCB30LM6SS	100.0 (445.0)	2.9 (73.5)	0.3 (6.5)	30 ° Long	4.1 (103.2)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01964*	RCB30LM8SS	100.0 (445.0)	2.9 (73.5)	0.3 (8.31)	30 ° Long	4.1 (103.2)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01965*	RCB30LM10SS	100.0 (445.0)	2.9 (73.5)	0.4 (10.29)	30 ° Long	4.1 (103.2)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01966*	RCB30LM12SS	100.0 (445.0)	2.9 (73.5)	0.5 (12.95)	30 ° Long	4.1 (103.2)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01959*	RCB30SM6SS	100.0 (445.0)	1.9 (48.8)	0.3 (6.5)	30 ° Short	3.1 (78.5)	1.4 (34.9)	PA66HIRHSUV, SS304	280
151-01960*	RCB30SM8SS	100.0 (445.0)	1.9 (48.8)	0.3 (8.31)	30 ° Short	3.1 (78.5)	1.4 (34.9)	PA66HIRHSUV, SS304	280
151-01961*	RCB30SM10SS	100.0 (445.0)	1.9 (48.8)	0.4 (10.29)	30 ° Short	3.1 (78.5)	1.4 (34.9)	PA66HIRHSUV, SS304	280

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 \*This product meets UL standards. Please see appendix for specific file numbers.



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# Bundling and Securing

## Clamps

### Stainless Steel Ratchet P-Clamp

Size B - For bundle diameters from ½" to ¾" (12.7 mm to 19.5 mm)

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Centers in. (mm)	Mounting Hole Dia. in. (mm)	Angle/Length	Length (L2) in. (mm)	Width (W) in. (mm)	Material	Pkg. Qty.
151-01962*	RCB30SM12SS	100.0 (445.0)	1.9 (48.8)	0.5 (12.95)	30 ° Short	3.1 (78.5)	1.4 (34.9)	PA66HIRHSUV, SS304	280
151-01971*	RCB90LM6SS	100.0 (445.0)	1.1 (26.7)	0.3 (6.5)	90 ° Long	3.8 (96.8)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01972*	RCB90LM8SS	100.0 (445.0)	1.1 (26.7)	0.3 (8.31)	90 ° Long	3.8 (96.8)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01973*	RCB90LM10SS	100.0 (445.0)	1.1 (26.7)	0.4 (10.29)	90 ° Long	3.8 (96.8)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01974*	RCB90LM12SS	100.0 (445.0)	1.1 (26.7)	0.5 (12.95)	90 ° Long	3.8 (96.8)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01967*	RCB90SM6SS	100.0 (445.0)	1.1 (26.7)	0.3 (6.5)	90 ° Short	2.7 (68.8)	1.4 (34.9)	PA66HIRHSUV, SS304	280
151-01968*	RCB90SM8SS	100.0 (445.0)	1.1 (26.7)	0.3 (8.31)	90 ° Short	2.7 (68.8)	1.4 (34.9)	PA66HIRHSUV, SS304	280
151-01969*	RCB90SM10SS	100.0 (445.0)	1.1 (26.7)	0.4 (10.29)	90 ° Short	2.7 (68.8)	1.4 (34.9)	PA66HIRHSUV, SS304	280
151-01970*	RCB90SM12SS	100.0 (445.0)	1.1 (26.7)	0.5 (12.95)	90 ° Short	2.7 (68.8)	1.4 (34.9)	PA66HIRHSUV, SS304	280
151-01951*	RCB180LM6SS	100.0 (445.0)	4.1 (103.8)	0.3 (6.5)	180 ° Long	5.3 (134.1)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01952*	RCB180LM8SS	100.0 (445.0)	4.1 (103.8)	0.3 (8.31)	180 ° Long	5.3 (134.1)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01953*	RCB180LM10SS	100.0 (445.0)	4.1 (103.8)	0.4 (10.29)	180 ° Long	5.3 (134.1)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01954*	RCB180LM12SS	100.0 (445.0)	4.1 (103.8)	0.5 (12.95)	180 ° Long	5.3 (134.1)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01947*	RCB180MM6SS	100.0 (445.0)	2.9 (74.8)	0.3 (6.5)	180 ° Medium	4.1 (105.1)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01948*	RCB180MM8SS	100.0 (445.0)	2.9 (74.8)	0.3 (8.31)	180 ° Medium	4.1 (105.1)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01949*	RCB180MM10SS	100.0 (445.0)	2.9 (74.8)	0.4 (10.29)	180 ° Medium	4.1 (105.1)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01950*	RCB180MM12SS	100.0 (445.0)	2.9 (74.8)	0.5 (12.95)	180 ° Medium	4.1 (105.1)	1.4 (34.9)	PA66HIRHSUV, SS304	200
151-01943*	RCB180SM6SS	100.0 (445.0)	2.1 (52.8)	0.3 (6.5)	180 ° Short	3.3 (83.1)	1.4 (34.9)	PA66HIRHSUV, SS304	280
151-01944*	RCB180SM8SS	100.0 (445.0)	2.1 (52.8)	0.3 (8.31)	180 ° Short	3.3 (83.1)	1.4 (34.9)	PA66HIRHSUV, SS304	280
151-01945*	RCB180SM10SS	100.0 (445.0)	2.1 (52.8)	0.4 (10.29)	180 ° Short	3.3 (83.1)	1.4 (34.9)	PA66HIRHSUV, SS304	280
151-01946*	RCB180SM12SS	100.0 (445.0)	2.1 (52.8)	0.5 (12.95)	180 ° Short	3.3 (83.1)	1.4 (34.9)	PA66HIRHSUV, SS304	280

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

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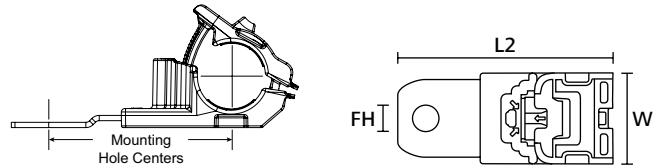
### Stainless Steel Ratchet P-Clamp

**Size C - For bundle diameters from 3/4" to 1 3/8" (19.4 mm to 36.0 mm)**

The Ratchet P-Clamp family offers versatility when managing wires, cables and hoses. The robust design and durable materials make it ideal for heavy duty applications, both indoors and out. The one-piece adjustable clamp can be closed by hand to the desired diameter. The release feature provides easy and nondestructive removal of cables simply by using a flat-head screwdriver. This nondestructive release allows the clamp to be reused without removing or replacing any bolts or screws. The Ratchet P-Clamp is offered in four sizes and multiple mounting configurations.

#### Features and Benefits

- One-piece ratchet closure design allows for easy installation during pre- or final assembly.
- Four sizes and multiple configurations handle a wide range of diameters and applications, reducing part inventory.
- Clamp interior is designed to guide and center bundle to reduce pinching.
- Easy release feature allows for quick adjustments and maintenance.
- Impact modified, heat and UV stabilized PA66 provides long-term durability, indoors and out.
- Stainless steel mounting plate tolerates high torque mounting, resists galvanic corrosion with dissimilar metals, and harsh chemicals.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Centers in. (mm)	Mounting Hole Dia. in. (mm)	Angle/Length	Length (L2) in. (mm)	Width (W) in. (mm)	Material	Pkg. Qty.
151-01987*	RCC15SM6SS	100.0 (445.0)	2.5 (62.3)	0.3 (6.5)	15 ° Short	4.1 (103.5)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-01988*	RCC15SM8SS	100.0 (445.0)	2.5 (62.3)	0.3 (8.31)	15 ° Short	4.1 (103.5)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-01989*	RCC15SM10SS	100.0 (445.0)	2.5 (62.3)	0.4 (10.29)	15 ° Short	4.1 (103.5)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-01990*	RCC15SM12SS	100.0 (445.0)	2.5 (62.3)	0.5 (12.95)	15 ° Short	4.1 (103.5)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-01995*	RCC30LM6SS	100.0 (445.0)	3.0 (75.2)	0.3 (6.5)	30 ° Long	4.5 (114.9)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-01996*	RCC30LM8SS	100.0 (445.0)	3.0 (75.2)	0.3 (8.31)	30 ° Long	4.5 (114.9)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-01997*	RCC30LM10SS	100.0 (445.0)	3.0 (75.2)	0.4 (10.29)	30 ° Long	4.5 (114.9)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-01998*	RCC30LM12SS	100.0 (445.0)	3.0 (75.2)	0.5 (12.95)	30 ° Long	4.5 (114.9)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-01991*	RCC30SM6SS	100.0 (445.0)	2.0 (50.5)	0.3 (6.5)	30 ° Short	3.6 (90.2)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-01992*	RCC30SM8SS	100.0 (445.0)	2.0 (50.5)	0.3 (8.31)	30 ° Short	3.6 (90.2)	1.4 (34.9)	PA66HIRHSUV, SS304	160

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# Bundling and Securing

## Clamps

### Stainless Steel Ratchet P-Clamp

Size C - For bundle diameters from ¾" to 1⅜" (19.4 mm to 36.0 mm)

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Centers in. (mm)	Mounting Hole Dia. in. (mm)	Angle/Length	Length (L2) in. (mm)	Width (W) in. (mm)	Material	Pkg. Qty.
151-01993*	RCC30SM10SS	100.0 (445.0)	2.0 (50.5)	0.4 (10.29)	30 ° Short	3.6 (90.2)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-01994*	RCC30SM12SS	100.0 (445.0)	2.0 (50.5)	0.5 (12.95)	30 ° Short	3.6 (90.2)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-02004*	RCC90LM6SS	100.0 (445.0)	1.6 (39.9)	0.3 (6.5)	90 ° Long	5.1 (129.2)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-02005*	RCC90LM8SS	100.0 (445.0)	1.6 (39.9)	0.3 (8.31)	90 ° Long	5.1 (129.2)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-02006*	RCC90LM10SS	100.0 (445.0)	1.6 (39.9)	0.4 (10.29)	90 ° Long	5.1 (129.2)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-02007*	RCC90LM12SS	100.0 (445.0)	1.6 (39.9)	0.5 (12.95)	90 ° Long	5.1 (129.2)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-01999*	RCC90SM6SS	100.0 (445.0)	1.6 (39.9)	0.3 (6.5)	90 ° Short	4.0 (101.2)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-02001*	RCC90SM8SS	100.0 (445.0)	1.6 (39.9)	0.3 (8.31)	90 ° Short	4.0 (101.2)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-02002*	RCC90SM10SS	100.0 (445.0)	1.6 (39.9)	0.4 (10.29)	90 ° Short	4.0 (101.2)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-02003*	RCC90SM12SS	100.0 (445.0)	1.6 (39.9)	0.5 (12.95)	90 ° Short	4.0 (101.2)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-01983*	RCC180LM6SS	100.0 (445.0)	4.5 (113.3)	0.3 (6.5)	180 ° Long	6.1 (154.0)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-01984*	RCC180LM8SS	100.0 (445.0)	4.5 (113.3)	0.3 (8.31)	180 ° Long	6.1 (154.0)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-01985*	RCC180LM10SS	100.0 (445.0)	4.5 (113.3)	0.4 (10.29)	180 ° Long	6.1 (154.0)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-01986*	RCC180LM12SS	100.0 (445.0)	4.5 (113.3)	0.5 (12.95)	180 ° Long	6.1 (154.0)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-01979*	RCC180MM6SS	100.0 (445.0)	3.3 (84.3)	0.3 (6.5)	180 ° Medium	4.9 (125.0)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-01980*	RCC180MM8SS	100.0 (445.0)	3.3 (84.3)	0.3 (8.31)	180 ° Medium	4.9 (125.0)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-01981*	RCC180MM10SS	100.0 (445.0)	3.3 (84.3)	0.4 (10.29)	180 ° Medium	4.9 (125.0)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-01982*	RCC180MM12SS	100.0 (445.0)	3.3 (84.3)	0.5 (12.95)	180 ° Medium	4.9 (125.0)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-01975*	RCC180SM6SS	100.0 (445.0)	2.5 (62.3)	0.3 (6.5)	180 ° Short	4.1 (103.0)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-01976*	RCC180SM8SS	100.0 (445.0)	2.5 (62.3)	0.3 (8.31)	180 ° Short	4.1 (103.0)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-01977*	RCC180SM10SS	100.0 (445.0)	2.5 (62.3)	0.4 (10.29)	180 ° Short	4.1 (103.0)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-01978*	RCC180SM12SS	100.0 (445.0)	2.5 (62.3)	0.5 (12.95)	180 ° Short	4.1 (103.0)	1.4 (34.9)	PA66HIRHSUV, SS304	160

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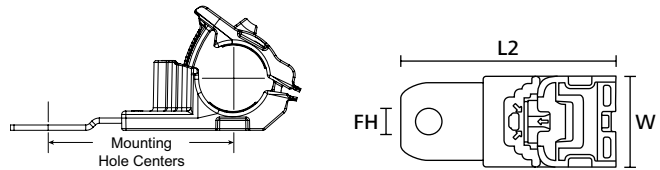
### Stainless Steel Ratchet P-Clamp

**Size D - For bundle diameters from 1 3/8" to 2" (36.0 mm to 51.0 mm)**

The Ratchet P-Clamp family offers versatility when managing wires, cables and hoses. The robust design and durable materials make it ideal for heavy duty applications, both indoors and out. The one-piece adjustable clamp can be closed by hand to the desired diameter. The release feature provides easy and nondestructive removal of cables simply by using a flat-head screwdriver. This nondestructive release allows the clamp to be reused without removing or replacing any bolts or screws. The Ratchet P-Clamp is offered in four sizes and multiple mounting configurations.

#### Features and Benefits

- One-piece ratchet closure design allows for easy installation during pre- or final assembly.
- Four sizes and multiple configurations handle a wide range of diameters and applications, reducing part inventory.
- Clamp interior is designed to guide and center bundle to reduce pinching.
- Easy release feature allows for quick adjustments and maintenance.
- Impact modified, heat and UV stabilized PA66 provides long-term durability, indoors and out.
- Stainless steel mounting plate tolerates high torque mounting, resists galvanic corrosion with dissimilar metals, and harsh chemicals.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Centers in. (mm)	Mounting Hole Dia. in. (mm)	Angle/Length	Length (L2) in. (mm)	Width (W) in. (mm)	Material	Pkg. Qty.
151-02020*	RCD15SM6SS	100.0 (445.0)	2.7 (69.1)	0.3 (6.5)	15 ° Short	4.6 (115.9)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-02021*	RCD15SM8SS	100.0 (445.0)	2.7 (69.1)	0.3 (8.31)	15 ° Short	4.6 (115.9)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-02022*	RCD15SM10SS	100.0 (445.0)	2.7 (69.1)	0.4 (10.29)	15 ° Short	4.6 (115.9)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-02023*	RCD15SM12SS	100.0 (445.0)	2.7 (69.1)	0.5 (12.95)	15 ° Short	4.6 (115.9)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-02028*	RCD30LM6SS	100.0 (445.0)	3.2 (80.5)	0.3 (6.5)	30 ° Long	5.0 (127.0)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-02029*	RCD30LM8SS	100.0 (445.0)	3.2 (80.5)	0.3 (8.31)	30 ° Long	5.0 (127.0)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-02030*	RCD30LM10SS	100.0 (445.0)	3.2 (80.5)	0.4 (10.29)	30 ° Long	5.0 (127.0)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-02031*	RCD30LM12SS	100.0 (445.0)	3.2 (80.5)	0.5 (12.95)	30 ° Long	5.0 (127.0)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-02024*	RCD30SM6SS	100.0 (445.0)	2.2 (55.9)	0.3 (6.5)	30 ° Short	4.0 (102.4)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-02025*	RCD30SM8SS	100.0 (445.0)	2.2 (55.9)	0.3 (8.31)	30 ° Short	4.0 (102.4)	1.4 (34.9)	PA66HIRHSUV, SS304	160

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# Bundling and Securing

## Clamps

### Stainless Steel Ratchet P-Clamp

Size D - For bundle diameters from 1 3/8" to 2" (36.0 mm to 51.0 mm)

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Mounting Hole Centers in. (mm)	Mounting Hole Dia. in. (mm)	Angle/Length	Length (L2) in. (mm)	Width (W) in. (mm)	Material	Pkg. Qty.
151-02026*	RCD30SM10SS	100.0 (445.0)	2.2 (55.9)	0.4 (10.29)	30 ° Short	4.0 (102.4)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-02027*	RCD30SM12SS	100.0 (445.0)	2.2 (55.9)	0.5 (12.95)	30 ° Short	4.0 (102.4)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-02036*	RCD90LM6SS	100.0 (445.0)	1.7 (42.4)	0.3 (6.5)	90 ° Long	4.6 (116.7)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-02037*	RCD90LM8SS	100.0 (445.0)	1.7 (42.4)	0.3 (8.31)	90 ° Long	4.6 (116.7)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-02038*	RCD90LM10SS	100.0 (445.0)	1.7 (42.4)	0.4 (10.29)	90 ° Long	4.6 (116.7)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-02039*	RCD90LM12SS	100.0 (445.0)	1.7 (42.4)	0.5 (12.95)	90 ° Long	4.6 (116.7)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-02032*	RCD90SM6SS	100.0 (445.0)	1.7 (42.4)	0.3 (6.5)	90 ° Short	3.5 (88.7)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-02033*	RCD90SM8SS	100.0 (445.0)	1.7 (42.4)	0.3 (8.31)	90 ° Short	3.5 (88.7)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-02034*	RCD90SM10SS	100.0 (445.0)	1.7 (42.4)	0.4 (10.29)	90 ° Short	3.5 (88.7)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-02035*	RCD90SM12SS	100.0 (445.0)	1.7 (42.4)	0.5 (12.95)	90 ° Short	3.5 (88.7)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-02016*	RCD180LM6SS	100.0 (445.0)	4.8 (121.0)	0.3 (6.5)	180 ° Long	6.6 (166.5)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-02017*	RCD180LM8SS	100.0 (445.0)	4.8 (121.0)	0.3 (8.31)	180 ° Long	6.6 (166.5)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-02018*	RCD180LM10SS	100.0 (445.0)	4.8 (121.0)	0.4 (10.29)	180 ° Long	6.6 (166.5)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-02019*	RCD180LM12SS	100.0 (445.0)	4.8 (121.0)	0.5 (12.95)	180 ° Long	6.6 (166.5)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-02012*	RCD180MM6SS	100.0 (445.0)	3.6 (92.0)	0.3 (6.5)	180 ° Medium	5.4 (137.5)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-02013*	RCD180MM8SS	100.0 (445.0)	3.6 (92.0)	0.3 (8.31)	180 ° Medium	5.4 (137.5)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-02014*	RCD180MM10SS	100.0 (445.0)	3.6 (92.0)	0.4 (10.29)	180 ° Medium	5.4 (137.5)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-02015*	RCD180MM12SS	100.0 (445.0)	3.6 (92.0)	0.5 (12.95)	180 ° Medium	5.4 (137.5)	1.4 (34.9)	PA66HIRHSUV, SS304	140
151-02008*	RCD180SM6SS	100.0 (445.0)	2.8 (70.0)	0.3 (6.5)	180 ° Short	4.6 (115.5)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-02009*	RCD180SM8SS	100.0 (445.0)	2.8 (70.0)	0.3 (8.31)	180 ° Short	4.6 (115.5)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-02010*	RCD180SM10SS	100.0 (445.0)	2.8 (70.0)	0.4 (10.29)	180 ° Short	4.6 (115.5)	1.4 (34.9)	PA66HIRHSUV, SS304	160
151-02011*	RCD180SM12SS	100.0 (445.0)	2.8 (70.0)	0.5 (12.95)	180 ° Short	4.6 (115.5)	1.4 (34.9)	PA66HIRHSUV, SS304	160

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

\*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

### Ratchet P-Clamps

#### Accessories

The Ratchet P-Clamp family offers optional accessories for different user needs. The Tension Tab provides a specified tension when clamping around the bundle when used with EVO® Series hand tools. Our Soft Inserts deliver an additional level of protection for sensitive bundles or high-vibration applications.

#### Features and Benefits

- For pre-determined clamp pressure, a tension tab is available for use with our EVO Series hand tools.
- Soft material inserts snap precisely into the body of the clamp to provide an enhanced level of protection for applications with movement, high vibration or soft cable bundles.



PART NO.	TYPE	Description	Material	Color	Pkg. Qty.
151-01530*	RCINSERTA	Ratchet P-Clamp Size A Soft Insert	TPE	Black	100
151-01531*	RCINSERTB	Ratchet P-Clamp Size B Soft Insert	TPE	Black	100
151-01532*	RCINSERTC	Ratchet P-Clamp Size C Soft Insert	TPE	Black	100
151-01533*	RCINSERTD	Ratchet P-Clamp Size D Soft Insert	TPE	Black	100
151-01529	RCTT	Ratchet P-Clamp Tension Tab	PA66HIRHSUV	Black	100

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

Note: Using soft inserts will reduce clamp diameter range; please test in application to ensure the proper fit. \*This product meets UL standards. Please see appendix for specific file numbers.

# Bundling and Securing

## Self-Affixing Clamps

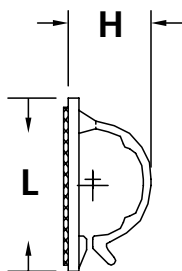
### Adhesive Cable Clamps

#### RB Series

The RB Adhesive cable clamps are designed with an easy snap-in feature allowing simple installation or removal of cables, pipes or hoses. The rubber based adhesive allows for a permanent bond to most surfaces.

#### Features and Benefits

- Simple snap-in design allows for quick and easy installation or removal of cables.
- Rubber based adhesive allows for a permanent bond to most surfaces.



PART NO.	TYPE	Max. Bundle Diameter in. (mm)	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
151-14059	RB5	0.2 (5.0)	0.8 (19.0)	0.8 (19.0)	0.2 (6.0)	PA66	Natural	100
151-13601	RB8	0.3 (8.0)	1.0 (25.0)	1.0 (25.0)	0.5 (11.5)	PA66	Black	100
RB8L4		0.3 (8.0)	1.0 (25.0)	1.0 (25.0)	0.5 (11.5)	PA66	Natural	200
RB14L4	RB14	0.6 (14.0)	1.3 (33.2)	1.1 (27.4)	0.6 (16.0)	PA66	Natural	200

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

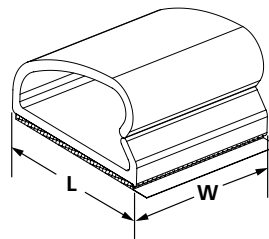
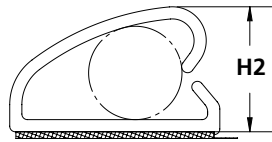
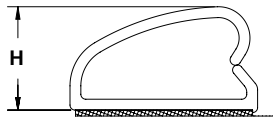
### Adhesive Cable Clamps

#### WAC Adhesive Cable Clamps

The WAC Adhesive cable clamps are designed with lead in angles allowing for easy insertion of wires and cables. The rubber based adhesive allows for a permanent bond to most surfaces. Available in two sizes.

#### Features and Benefits

- Lead-in angle design allows for quick and easy installation of wires and cables.
- Rubber based adhesive allows for a permanent bond to most surfaces.



PART NO.	TYPE	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Height (H2) in. (mm)	Material	Color	Pkg. Qty.
151-00667	WAC075	0.5 (12.7)	0.8 (19.1)	1.1 (28.7)	1.0 (25.4)	0.6 (15.8)	1.1 (26.7)	PVC	Gray	500
151-00669	WAC100	0.8 (19.1)	1.0 (25.4)	1.5 (38.1)	1.3 (31.8)	0.9 (21.6)	1.4 (34.3)	PVC	Gray	100
151-00668		0.8 (19.1)	1.0 (25.4)	1.5 (38.1)	1.3 (31.8)	0.9 (21.6)	1.4 (34.3)	PVC	Gray	500

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

# Bundling and Securing

## Self-Affixing Clamps

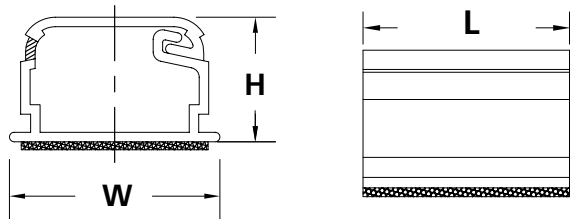
### Adhesive Cable Clamps

#### TSR Adhesive Clips

Manufactured from HellermannTyton's surface raceway, these adhesive cable clamps are designed with a co-extruded hinge offering unlimited and easy access to wire and cable. The clip can be open and closed repeatedly without deformation or signs of wear. The rubber based adhesive allows for a permanent bond to most surfaces. Available in three sizes.

#### Features and Benefits

- Co-extruded hinge offers unlimited access to wire and cables and can be open and closed repeatedly without signs of wear.
- Rubber based adhesive allows for a permanent bond to most surfaces.



PART NO.	TYPE	Max. Bundle Diameter in. (mm)	Length (L) in. (mm)	Width (W) in. (mm)	Height (H) in. (mm)	Material	Color	Pkg. Qty.
SRCI0500C2	SRCI0500	0.5 (12.7)	0.8 (19.1)	0.8 (21.3)	0.5 (13.0)	PVC	Ivory	100
SRCI0750C2	SRCI0750	0.8 (19.0)	1.3 (31.8)	1.4 (34.5)	0.8 (19.6)	PVC	Ivory	100
SRCI1000K2	SRCI1000	1.0 (25.4)	1.8 (44.5)	1.9 (47.8)	1.0 (25.4)	PVC	Ivory	50

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



### Locking Clamps

#### Pipe and Hose Clips

The Locking Omega Clip creates a full and secure lock completely around a wire bundle ranging from 5-25 mm. The fixating fir tree on this clip allows for the clip to be secured into a panel by utilizing a round or oval hole.

#### Features and Benefits

- The 360 degree enclosure ensures the entire bundle is secure when being routed by this clip.
- Locking tab on this clip is small enough that it will not interfere with any other portion of the wire routing, but is significant enough to allow for manual disengagement if service is needed.
- Disc around the fir tree eliminates potential debris and water to enter the panel hole.

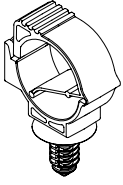


PART NO.	TYPE	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Mounting Hole Dia. in. (mm)		Material	Color	Pkg. Qty.	Drawing
151-01306	LOC5-9FTOVAL	0.2 (5.0)	0.4 (9.0)	0.24 x 0.48; 0.26 x 0.49; 0.26 x 0.51; 0.28 x 0.47	(6.2 x 12.2), (6.5 x 12.5), (6.5 x 13.0), (7.0 x 12.0)	PA66HIRHSUV	Black	1000	
151-01017	LOC59FT6LG	0.2 (5.0)	0.4 (9.0)	0.25 HEX; 0.26	(6.35 hexagonal), (6.5 +/- 0.4)	PA66HIRHSUV	Black	1000	
151-01166	LOC1014FT6LG	0.4 (10.0)	0.6 (14.0)	0.25 HEX; 0.26	(6.35 hexagonal), (6.5 +/- 0.4)	PA66HIRHSUV	Black	1000	
151-02218	LOC1014FT9x12	0.4 (10.0)	0.6 (14.0)	0.35 x 0.47 0.35 x 0.55	(9.0 x 12.0), (9.0 x 14.0)	PA66HIRHSUV	Black	100	
151-02501		0.4 (10.0)	0.6 (14.0)	0.35 x 0.47 0.35 x 0.55	(9.0 x 12.0), (9.0 x 14.0)	PA66HIRHSUV	Black	500	
151-01023	LOC15-19FT6LG2	0.6 (15.0)	0.8 (19.0)	0.24 - 0.27	(6.1 - 6.9)	PA66HIRHS	Black	2000	

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

## Locking Clamps

### Pipe and Hose Clips

PART NO.	TYPE	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Mounting Hole Dia. in. (mm)		Material	Color	Pkg. Qty.	Drawing
151-01022	LOC15-19FT6LG	0.6 (15.0)	0.8 (19.0)	0.25 HEX; 0.26	(6.35 hexagonal), (6.5 +/- 0.4)	PA66HIRHSUV	Black	1000	
151-01371	LOC20-25FT6.5LG	0.8 (20.0)	1.0 (25.0)	0.25 HEX; 0.26	(6.35 hexagonal), (6.5 +/- 0.4)	PA66HIRHSUV	Black	1000	

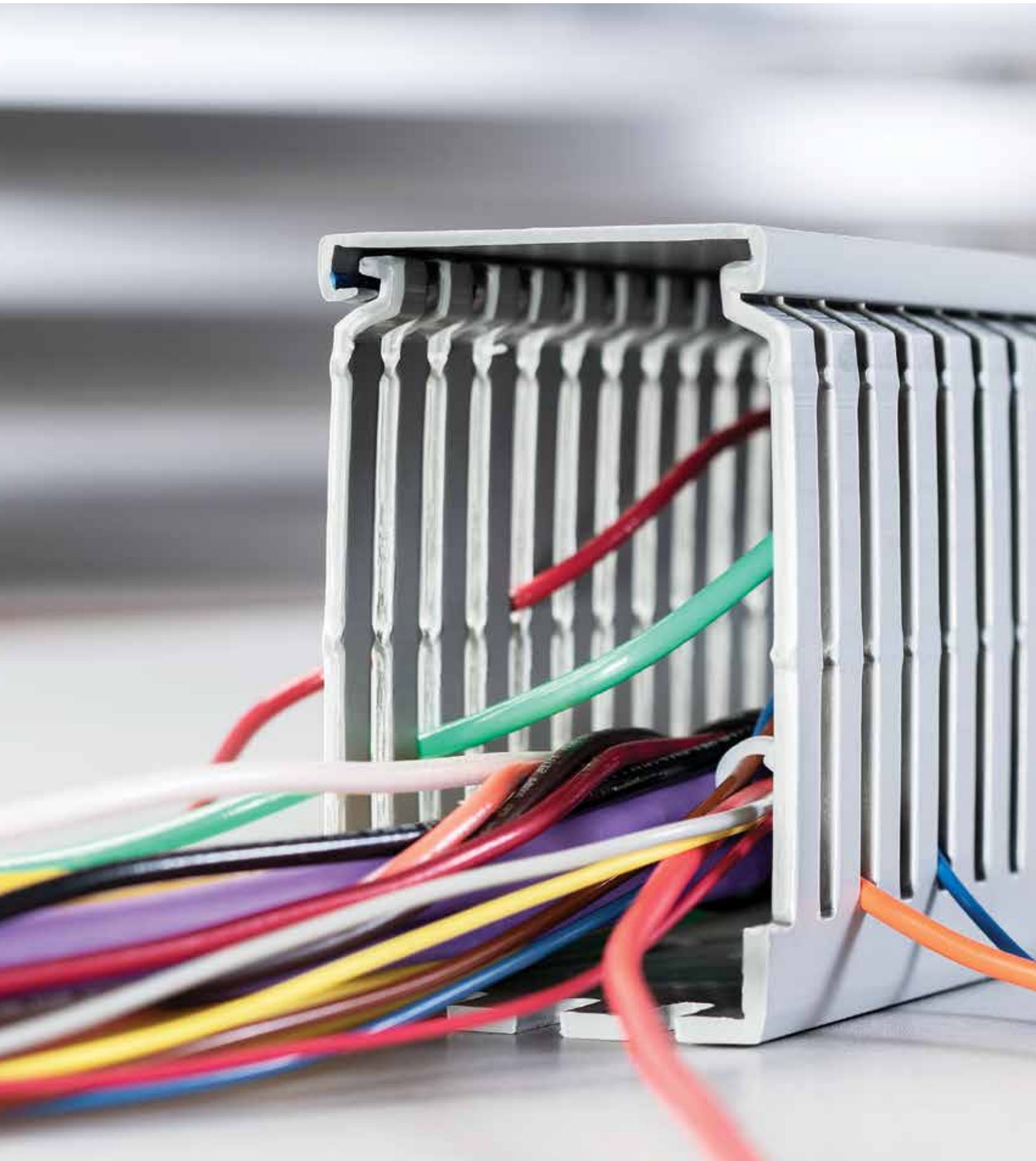
Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

# The world is not flat.

Our world is filled with curved and moderately angled surfaces that would make ideal places to route and mount wire, cable and hoses. For that reason, there's FlexTack, a flexible cable tie mount that assists in routing bundles in more places – without the need to drill holes. Its high-strength acrylic adhesive delivers excellent performance for a wide range of indoor and outdoor applications. Imagine the possibilities.

**MADE FOR REAL** 

Learn more about FlexTack's capabilities and where to put it to work: [www.hellermann.tyton.com/FlexTack](http://www.hellermann.tyton.com/FlexTack)



## Inspired by customers

Customer feedback helps us evolve our products. Take our high-density electrical duct. We rounded off edges to make it safer to handle and improved our scoring process for cleaner break-offs. When we considered how much leftover product must be discarded, we acquired recyclable certification for our entire duct line. Great things happen when you just listen to customers.

Wiring Duct .....	230
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# Routing, Protection and Insulation

## Wiring Duct

### Slotted Wall Duct

#### Slotted Wall Wiring Duct

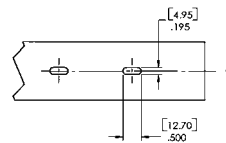
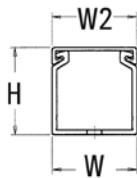
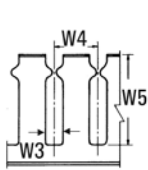
Pro-Duct slotted wall wiring duct features break-away fingers which provide additional access for wire leads. Each section of the duct is provided with two score lines. The upper score line is used to break away fingers when a greater opening is required. The lower score line allows the sidewall to be smoothly cut for joints and Ts.

#### Features and Benefits

- Strong fingers prevent unwanted breaking.
- Fingers are easily deflected outward, allowing ready positioning of the wires within the slotted wall duct.
- Restricted opening design in the finger of the duct helps keep wires in place.
- Restricted opening prevents unintended removal of wires and permits any individual wire to be traced without disconnection.
- Supplied with mounting holes to streamline installation.
- Optional covers enhance protection and appearance.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	Self-Extinguishing
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
181-11009*	SL1x1	1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Black	120 ft
181-11011*		1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Gray	30 ft
181-11013*		1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Gray	120 ft
181-11014*		1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	White	30 ft
181-11015*		1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	White	120 ft

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. \*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

### Slotted Wall Duct

#### Slotted Wall Wiring Duct

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
181-05529*	SL1X1.5	1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	1.2 (30.2)	Black	30 ft
181-00552*		1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	1.2 (30.2)	Black	120 ft
181-11503*		1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	1.2 (30.2)	Gray	30 ft
181-11505*		1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	1.2 (30.2)	Gray	120 ft
181-11506*		1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	1.2 (30.2)	White	30 ft
181-11507*		1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	1.2 (30.2)	White	120 ft
181-05565*	SL1X2	1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	Black	30 ft
181-00024*		1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	Black	120 ft
181-12004*		1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	Gray	30 ft
181-12005*		1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	Gray	120 ft
181-12007*		1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	White	30 ft
181-12008*		1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	White	120 ft
181-00310*	SL1X3	1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Black	30 ft
181-13003*		1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Black	120 ft
181-13005*		1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Gray	30 ft
181-13006*		1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Gray	120 ft
181-13007*		1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	White	30 ft
181-13008*		1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	White	120 ft

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

For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. \*This product meets UL standards. Please see appendix for specific file numbers.



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# Routing, Protection and Insulation

## Wiring Duct

### Slotted Wall Duct

#### Slotted Wall Wiring Duct

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
181-05581*	SL1X4	1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Black	30 ft
181-14001*		1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Black	120 ft
181-14002*		1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Gray	30 ft
181-14003*		1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Gray	120 ft
181-14005*		1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	White	30 ft
181-14006*		1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	White	120 ft
181-05588*	SL1.5X1	1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Black	30 ft
181-00548*		1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Black	120 ft
181-15104*		1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Gray	30 ft
181-15105*		1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Gray	120 ft
181-15106*		1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	White	30 ft
181-15107*		1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	White	120 ft
181-15505*	SL1.5X1.5	1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	1.2 (30.5)	Black	120 ft
181-15507*		1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	1.2 (30.5)	Gray	30 ft
181-15509*		1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	1.2 (30.5)	Gray	120 ft
181-15510*		1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	1.2 (30.5)	White	30 ft
181-15511*		1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	1.2 (30.5)	White	120 ft

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. \*This product meets UL standards. Please see appendix for specific file numbers.



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### Slotted Wall Duct

#### Slotted Wall Wiring Duct

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
181-05551*	SL1.5X2	1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	1.6 (40.6)	Black	30 ft
181-15203*		1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	1.6 (40.6)	Black	120 ft
181-15206*		1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	1.6 (40.6)	Gray	30 ft
181-15207*		1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	1.6 (40.6)	Gray	120 ft
181-15208*		1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	1.6 (40.6)	White	30 ft
181-15209*		1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	1.6 (40.6)	White	120 ft
181-00550*	SL1.5X3	1.5 (38.1)	3.1 (77.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Black	120 ft
181-15302*		1.5 (38.1)	3.1 (77.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Gray	30 ft
181-15304*		1.5 (38.1)	3.1 (77.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Gray	120 ft
181-15305*		1.5 (38.1)	3.1 (77.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	White	30 ft
181-15306*		1.5 (38.1)	3.1 (77.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	White	120 ft
181-23079*	SL1.5X4	1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Black	30 ft
181-15400*		1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Black	120 ft
181-15403*		1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Gray	30 ft
181-15404*		1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Gray	120 ft
181-15405*		1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	White	30 ft
181-15406*		1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	White	120 ft

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# Routing, Protection and Insulation

## Wiring Duct

### Slotted Wall Duct

#### Slotted Wall Wiring Duct

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
181-00554*	SL2X1	2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Black	120 ft
181-21004*		2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Gray	30 ft
181-21005*		2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Gray	120 ft
181-21006*		2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	White	30 ft
181-21007*		2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	White	120 ft
181-22019*	SL2X2	2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	1.6 (40.6)	Black	30 ft
181-22020*		2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	1.6 (40.6)	Black	120 ft
181-22022*		2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	1.6 (40.6)	Gray	30 ft
181-22024*		2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	1.6 (40.6)	Gray	120 ft
181-22027*		2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	1.6 (40.6)	White	30 ft
181-22028*		2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	1.6 (40.6)	White	120 ft
181-23013*	SL2X3	2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Black	30 ft
181-23003*		2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Black	120 ft
181-23005*		2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Gray	30 ft
181-23007*		2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Gray	120 ft
181-23008*		2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	White	30 ft
181-23009*		2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	White	120 ft
181-24005*	SL2X4	2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Black	30 ft
181-24003*		2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Black	120 ft
181-24007*		2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Gray	30 ft
181-24008*		2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Gray	120 ft
181-24010*		2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	White	30 ft
181-24011*		2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	White	120 ft

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### Slotted Wall Duct

#### Slotted Wall Wiring Duct

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
181-23036*	SL2X5	2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	Black	30 ft
181-00316*		2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	Black	120 ft
181-00237*		2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	Gray	30 ft
181-00236*		2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	Gray	120 ft
181-00241*		2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	White	30 ft
181-00240*		2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	White	120 ft
181-23092*	SL2.5X3	2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Black	30 ft
181-00318*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Black	120 ft
181-00213*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Gray	30 ft
181-00212*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Gray	120 ft
181-00217*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	White	30 ft
181-00216*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	White	120 ft
181-05561*	SL3X1	3.0 (76.2)	1.1 (26.9)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Black	30 ft
181-00557*		3.0 (76.2)	1.1 (26.9)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Black	120 ft
181-31004*		3.0 (76.2)	1.1 (26.9)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Gray	30 ft
181-00558*		3.0 (76.2)	1.1 (26.9)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Gray	120 ft
181-31006*		3.0 (76.2)	1.1 (26.9)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	White	30 ft
181-31007*		3.0 (76.2)	1.1 (26.9)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	White	120 ft

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# Routing, Protection and Insulation

## Wiring Duct

### Slotted Wall Duct

#### Slotted Wall Wiring Duct

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
181-32016*	SL3X2	3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	Black	30 ft
181-32004*		3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	Black	120 ft
181-32005*		3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	Gray	30 ft
181-32006*		3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	Gray	120 ft
181-32008*		3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	White	30 ft
181-32009*		3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	White	120 ft
181-33008*	SL3X3	3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Black	30 ft
181-33009*		3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Black	120 ft
181-33014*		3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Gray	30 ft
181-33016*		3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Gray	120 ft
181-33017*		3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	White	30 ft
181-33018*		3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	White	120 ft
181-34021*	SL3X4	3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Black	30 ft
181-34002*		3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Black	120 ft
181-34003*		3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Gray	30 ft
181-34004*		3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Gray	120 ft
181-34006*		3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	White	30 ft
181-34007*		3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	White	120 ft
181-35001*	SL3X5	3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	Black	30 ft
181-35002*		3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	Black	120 ft
181-35005*		3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	Gray	120 ft
181-35006*		3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	White	30 ft
181-00560*		3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	White	120 ft

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### Slotted Wall Duct

#### Slotted Wall Wiring Duct

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
181-42020*	SL4X2	4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	Black	30 ft
181-42005*		4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	Black	120 ft
181-42009*		4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	Gray	30 ft
181-42008*		4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	Gray	120 ft
181-42006*		4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	White	30 ft
181-42010*		4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	White	120 ft
181-23104*	SL4X3	4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Black	30 ft
181-00562*		4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Black	120 ft
181-43003*		4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Gray	30 ft
181-43004*		4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Gray	120 ft
181-43005*		4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	White	30 ft
181-43006*		4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	White	120 ft
181-44019*	SL4X4	4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Black	30 ft
181-44020*		4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Black	120 ft
181-44025*		4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Gray	30 ft
181-44027*		4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Gray	120 ft
181-44030*		4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	White	30 ft
181-44031*		4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	White	120 ft
181-45002*	SL4X5	4.0 (101.6)	5.1 (128.8)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	Black	60 ft
181-45010*		4.0 (101.6)	5.1 (128.8)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	Gray	60 ft
181-45011*		4.0 (101.6)	5.1 (128.8)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	White	60 ft

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# Routing, Protection and Insulation

## Wiring Duct

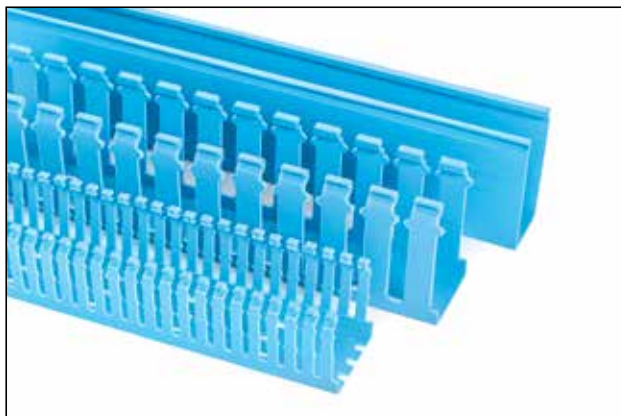
### Slotted Wall Duct

#### Slotted Wall Wiring Duct - Intrinsic Blue

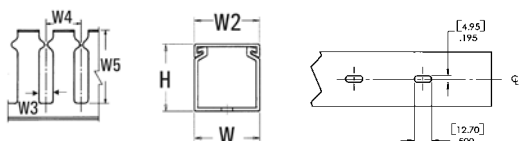
Manufactured from the same PVC material as standard Pro-Duct colors, HellermannTyton also offers an intrinsic blue color option. The intrinsic blue color indicates that the wiring contained in the duct runs to intrinsically safe components in the control panel. Pro-Duct slotted wall wiring duct features break-away fingers which provide additional access for wire leads. Each section of the duct is provided with two score lines. The upper score line is used to break away fingers when a greater opening is required. The lower score line allows the sidewall to be smoothly cut for joints and T's.

#### Features and Benefits

- Strong fingers prevent unwanted breaking.
- Fingers are easily deflected outward, allowing ready positioning of the wires within the slotted wall duct.
- Restricted opening design in the finger of the duct helps keep wires in place.
- Restricted opening prevents unintended removal of wires and permits any individual wire to be traced without disconnection.
- Supplied with mounting holes to streamline installation.
- Optional covers enhance protection and appearance.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	Self-Extinguishing
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
181-12003*	SL1X2	1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	Intrinsic Blue	120 ft
181-13004*	SL1X3	1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Intrinsic Blue	120 ft
181-05580*	SL1X4	1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Intrinsic Blue	120 ft
181-00160*	SL1.5X1	1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Intrinsic Blue	120 ft
181-15103*		1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Intrinsic Blue	30 ft
181-15506*	SL1.5X1.5	1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	1.2 (30.5)	Intrinsic Blue	120 ft
181-05550*	SL1.5X2	1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	1.6 (40.6)	Intrinsic Blue	120 ft

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. \*This product meets UL standards. Please see appendix for specific file numbers.



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PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
181-00211*	SL1.5X3	1.5 (38.1)	3.1 (77.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Intrinsic Blue	120 ft
181-23078*	SL1.5X4	1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Intrinsic Blue	120 ft
181-23085*	SL2X1	2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Intrinsic Blue	120 ft
181-22021*	SL2X2	2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	1.6 (40.6)	Intrinsic Blue	120 ft
181-23004*	SL2X3	2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Intrinsic Blue	120 ft
181-24006*	SL2X4	2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Intrinsic Blue	120 ft
181-23035*	SL2X5	2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	Intrinsic Blue	120 ft
181-23091*	SL2.5X3	2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Intrinsic Blue	120 ft
181-31003*	SL3X1	3.0 (76.2)	1.1 (26.9)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Intrinsic Blue	120 ft
181-23044*	SL3X2	3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	Intrinsic Blue	120 ft
181-33012*	SL3X3	3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Intrinsic Blue	120 ft
181-23052*	SL3X4	3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Intrinsic Blue	120 ft
181-23062*	SL3X5	3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	Intrinsic Blue	120 ft
181-05596*	SL4X2	4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	Intrinsic Blue	120 ft
181-00210*	SL4X3	4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Intrinsic Blue	120 ft
181-44024*	SL4X4	4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Intrinsic Blue	120 ft
181-00563*		4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Intrinsic Blue	30 ft
181-05604*	SL4X5	4.0 (101.6)	5.1 (128.8)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	Intrinsic Blue	60 ft

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

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# Routing, Protection and Insulation

## Wiring Duct

### Slotted Wall Duct

#### Slotted Wall Wiring Duct - Adhesive Back

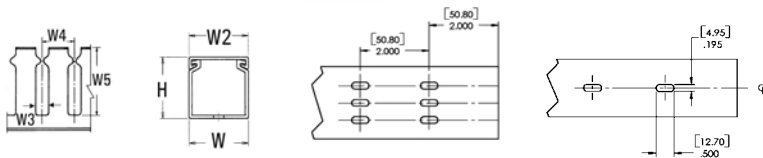
HellermannTyton Slotted Wall Duct features breakaway fingers that provide additional access for wire leads. Each section of the duct is provided with two score lines. The upper score line is used to break away fingers when a wider opening is required. The lower score line allows the sidewall to be smoothly cut for joints and Ts. Pressure-sensitive, rubber-based adhesive backing aids in temporary positioning.

#### Features and Benefits

- Strong fingers prevent unintended breaking.
- Fingers are easily deflected outward, allowing easier positioning of the wires.
- Restricted opening prevents unintended removal of wires and permits any individual wire to be traced without disconnection.
- Non-permanent adhesive allows repositioning prior to final installation.
- Optional covers snap on and off easily, and their nonslip lining ensures they stay in place even under vibration.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	Self-Extinguishing
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
181-11016*	SLA1X1	1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Black	120 ft
181-11017*		1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Gray	30 ft
181-11019*		1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Gray	120 ft
181-11021*		1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	White	120 ft
181-00564*	SLA1X1.5	1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	1.2 (30.2)	Black	120 ft
181-11509*		1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	1.2 (30.2)	Gray	120 ft
181-11510*		1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	1.2 (30.2)	White	30 ft
181-11511*		1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	1.2 (30.2)	White	120 ft

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For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. Adhesive back duct orders are non-cancellable and non-returnable. \*This product meets UL standards. Please see appendix for specific file numbers.



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### Slotted Wall Duct

#### Slotted Wall Wiring Duct - Adhesive Back

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
181-00565*	SLA1X2	1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	Black	120 ft
181-12010*		1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	Gray	30 ft
181-12011*		1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	Gray	120 ft
181-12012*		1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	White	30 ft
181-12013*		1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	White	120 ft
181-00566*	SLA1X3	1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Black	120 ft
181-13009*		1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Gray	30 ft
181-13010*		1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Gray	120 ft
181-13011*		1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	White	30 ft
181-13012*		1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	White	120 ft
181-00567*	SLA1X4	1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Black	120 ft
181-00568*		1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Gray	120 ft
181-00569*		1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	White	120 ft
181-00570*	SLA1.5X1	1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Black	120 ft
181-15108*		1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Gray	30 ft
181-00571*		1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Gray	120 ft
181-15109*		1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	White	30 ft
181-00572*		1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	White	120 ft

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# Routing, Protection and Insulation

## Wiring Duct

### Slotted Wall Duct

#### Slotted Wall Wiring Duct - Adhesive Back

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
181-00027*	SLA1.5X1.5	1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	1.2 (30.5)	Black	120 ft
181-15512*		1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	1.2 (30.5)	Gray	30 ft
181-15513*		1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	1.2 (30.5)	Gray	120 ft
181-15514*		1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	1.2 (30.5)	White	30 ft
181-15515*		1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	1.2 (30.5)	White	120 ft
181-00573*	SLA1.5X2	1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	1.6 (40.6)	Black	120 ft
181-15210*		1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	1.6 (40.6)	Gray	30 ft
181-15211*		1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	1.6 (40.6)	Gray	120 ft
181-15212*		1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	1.6 (40.6)	White	30 ft
181-15213*		1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	1.6 (40.6)	White	120 ft
181-00575*	SLA1.5X3	1.5 (38.1)	3.1 (77.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Black	120 ft
181-15307*		1.5 (38.1)	3.1 (77.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Gray	120 ft
181-15308*		1.5 (38.1)	3.1 (77.9)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	White	120 ft
181-00576*	SLA1.5X4	1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Black	120 ft
181-00577*		1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Gray	120 ft
181-00578*		1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	White	120 ft
181-00579*	SLA2X1	2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Black	120 ft
181-21008*		2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Gray	30 ft
181-21009*		2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Gray	120 ft
181-21010*		2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	White	30 ft
181-00580*		2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	White	120 ft

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### Slotted Wall Duct

#### Slotted Wall Wiring Duct - Adhesive Back

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
181-00681*	SLA2X2	2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	1.6 (40.6)	Black	30 ft
181-22031*		2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	1.6 (40.6)	Gray	30 ft
181-22032*		2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	1.6 (40.6)	Gray	120 ft
181-22033*		2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	1.6 (40.6)	White	30 ft
181-22034*		2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	1.6 (40.6)	White	120 ft
181-00581*	SLA2X3	2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Black	120 ft
181-23010*		2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Gray	30 ft
181-00582*		2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Gray	120 ft
181-23011*		2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	White	30 ft
181-23012*		2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	White	120 ft
181-00583*	SLA2X4	2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Black	120 ft
181-24013*		2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Gray	120 ft
181-24014*		2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	White	120 ft
181-00317*	SLA2X5	2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	Black	120 ft
181-00239*		2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	Gray	30 ft
181-00238*		2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	Gray	120 ft
181-00243*		2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	White	30 ft
181-00242*		2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	White	120 ft

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

For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. Adhesive back duct orders are non-cancellable and non-returnable. \*This product meets UL standards. Please see appendix for specific file numbers.



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# Routing, Protection and Insulation

## Wiring Duct

### Slotted Wall Duct

#### Slotted Wall Wiring Duct - Adhesive Back

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
181-00319*	SLA2.5X3	2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Black	120 ft
181-00215*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Gray	30 ft
181-00214*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Gray	120 ft
181-00219*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	White	30 ft
181-00218*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	White	120 ft
181-00584*	SLA3X1	3.0 (76.2)	1.1 (26.9)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Black	120 ft
181-00585*		3.0 (76.2)	1.1 (26.9)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	Gray	120 ft
181-00586*		3.0 (76.2)	1.1 (26.9)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	0.8 (19.1)	White	120 ft
181-00026*	SLA3X2	3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	Black	120 ft
181-32010*		3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	Gray	30 ft
181-32012*		3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	Gray	120 ft
181-32014*		3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	White	30 ft
181-32015*		3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	White	120 ft
181-33019*	SLA3X3	3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Black	30 ft
181-00159*		3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Black	120 ft
181-33020*		3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Gray	30 ft
181-33021*		3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Gray	120 ft
181-33023*		3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	White	30 ft
181-33022*		3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	White	120 ft

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

For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. Adhesive back duct orders are non-cancellable and non-returnable. \*This product meets UL standards. Please see appendix for specific file numbers.



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### Slotted Wall Duct

#### Slotted Wall Wiring Duct - Adhesive Back

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
181-00588*	SLA3X4	3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Black	120 ft
181-00589*		3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Gray	120 ft
181-34009*		3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	White	30 ft
181-00590*		3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	White	120 ft
181-00157*	SLA3X5	3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	Black	120 ft
181-00156*		3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	Gray	120 ft
181-00155*		3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	White	120 ft
181-00591*	SLA4X2	4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	Black	120 ft
181-42012*		4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	Gray	30 ft
181-00592*		4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	Gray	120 ft
181-42014*		4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	1.6 (41.1)	White	120 ft
181-00593*	SLA4X3	4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Black	120 ft
181-43008*		4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	Gray	120 ft
181-00594*		4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	2.6 (66.0)	White	120 ft
181-00595*	SLA4X4	4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Black	120 ft
181-44033*		4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	Gray	120 ft
181-00680*		4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	White	30 ft
181-44035*		4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	3.6 (91.4)	White	120 ft
181-45012*	SLA4X5	4.0 (101.6)	5.1 (128.8)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	Black	60 ft
181-00596*		4.0 (101.6)	5.1 (128.8)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	Gray	60 ft
181-45013*		4.0 (101.6)	5.1 (128.8)	4.0 (101.6)	0.4 (10.2)	1.0 (25.4)	4.6 (116.8)	White	60 ft

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

For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. Adhesive back duct orders are non-cancellable and non-returnable. \*This product meets UL standards. Please see appendix for specific file numbers.



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# Routing, Protection and Insulation

## Wiring Duct

### High Density Slotted Wall Duct

#### High Density Slotted Wall Wiring Duct

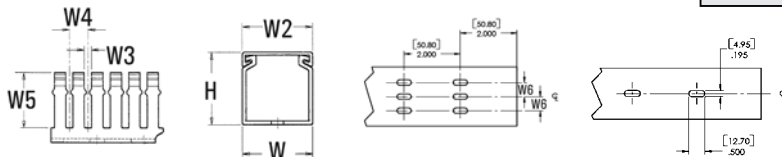
HellermannTyton Pro-Duct High-Density, Slotted-Wall Wiring Duct features narrow fingers equaling a 2 to 1 finger ratio compared to standard slotted wiring duct. With the narrow fingers, compact designs and components are more easily accommodated.

#### Features and Benefits

- Narrow fingers reduce fanning of the wires to the terminal blocks, presenting a neater appearance.
- Each finger is provided with a double restriction to hold wires in the bottom portion of the duct, allowing for easier installation.
- Mounting holes are uniform in size and are offered every 2 inches to accommodate compact designs and ease installation.
- Optional covers snap on and off easily, and are provided with a non-slip lining that insures the covers remain in place during vibration.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	Self-Extinguishing
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
184-05525*	SLHD1X1	1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Black	30 ft
181-00597*		1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Black	120 ft
184-11000*		1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Gray	30 ft
184-11004*		1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Gray	120 ft
184-11005*		1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	White	30 ft
184-11006*		1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	White	120 ft
184-05534*	SLHD1X1.5	1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	1.2 (30.2)	Black	30 ft
181-00598*		1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	1.2 (30.2)	Black	120 ft
184-11007*		1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	1.2 (30.2)	Gray	30 ft
184-11010*		1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	1.2 (30.2)	Gray	120 ft
184-11011*		1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	1.2 (30.2)	White	30 ft
184-11012*		1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	1.2 (30.2)	White	120 ft

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

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### High Density Slotted Wall Duct

#### High Density Slotted Wall Wiring Duct

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
184-05567*	SLHD1X2	1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	Black	30 ft
181-00599*		1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	Black	120 ft
184-12000*		1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	Gray	30 ft
184-12005*		1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	Gray	120 ft
184-12006*		1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	White	30 ft
184-12007*		1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	White	120 ft
184-12019*	SLHD1X3	1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Black	30 ft
181-00600*		1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Black	120 ft
184-13000*		1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Gray	30 ft
184-13005*		1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Gray	120 ft
184-13006*		1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	White	30 ft
184-13007*		1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	White	120 ft
184-05572*	SLHD1X4	1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Black	30 ft
181-00601*		1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Black	120 ft
184-14000*		1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Gray	30 ft
184-14002*		1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Gray	120 ft
184-14003*		1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	White	30 ft
184-14004*		1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	White	120 ft
181-05539*	SLHD1.5X1	1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Black	30 ft
181-00602*		1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Black	120 ft
181-00276*		1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Gray	30 ft
184-15101*		1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Gray	120 ft
181-00275*		1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	White	30 ft
184-15102*		1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	White	120 ft

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# Routing, Protection and Insulation

## Wiring Duct

### High Density Slotted Wall Duct

#### High Density Slotted Wall Wiring Duct

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
184-05544*	SLHD1.5X1.5	1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	1.2 (30.5)	Black	30 ft
181-00603*		1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	1.2 (30.5)	Black	120 ft
184-15150*		1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	1.2 (30.5)	Gray	30 ft
184-15152*		1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	1.2 (30.5)	Gray	120 ft
184-15154*		1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	1.2 (30.5)	White	30 ft
184-15155*		1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	1.2 (30.5)	White	120 ft
184-15214*	SLHD1.5X2	1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	1.6 (40.6)	Black	30 ft
181-00604*		1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	1.6 (40.6)	Black	120 ft
184-15200*		1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	1.6 (40.6)	Gray	30 ft
184-15202*		1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	1.6 (40.6)	Gray	120 ft
184-15204*		1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	1.6 (40.6)	White	30 ft
184-15206*		1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	1.6 (40.6)	White	120 ft
184-22035*	SLHD1.5X3	1.5 (38.1)	3.1 (77.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Black	30 ft
181-00605*		1.5 (38.1)	3.1 (77.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Black	120 ft
184-15300*		1.5 (38.1)	3.1 (77.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Gray	30 ft
184-15302*		1.5 (38.1)	3.1 (77.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Gray	120 ft
184-15303*		1.5 (38.1)	3.1 (77.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	White	30 ft
184-15304*		1.5 (38.1)	3.1 (77.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	White	120 ft
184-22038*	SLHD1.5X4	1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Black	30 ft
181-00606*		1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Black	120 ft
184-15400*		1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Gray	30 ft
184-15401*		1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Gray	120 ft
184-15402*		1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	White	30 ft
184-15403*		1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	White	120 ft

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

For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. \*This product meets UL standards. Please see appendix for specific file numbers.



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### High Density Slotted Wall Duct

#### High Density Slotted Wall Wiring Duct

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
184-21006*	SLHD2X1	2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Black	30 ft
181-00607*		2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Black	120 ft
184-21000*		2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Gray	30 ft
184-21002*		2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Gray	120 ft
181-00284*		2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	White	30 ft
184-21003*		2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	White	120 ft
184-22006*	SLHD2X2	2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	1.6 (40.6)	Black	30 ft
181-00608*		2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	1.6 (40.6)	Black	120 ft
184-22000*		2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	1.6 (40.6)	Gray	30 ft
184-22005*		2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	1.6 (40.6)	Gray	120 ft
184-22007*		2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	1.6 (40.6)	White	30 ft
184-22008*		2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	1.6 (40.6)	White	120 ft
184-22025*	SLHD2X3	2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Black	30 ft
181-00609*		2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Black	120 ft
184-23000*		2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Gray	30 ft
184-23004*		2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Gray	120 ft
184-23005*		2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	White	30 ft
184-23006*		2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	White	120 ft
181-00610*	SLHD2X4	2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Black	120 ft
184-24000*		2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Gray	30 ft
184-24004*		2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Gray	120 ft
184-24006*		2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	White	30 ft
184-24007*		2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	White	120 ft

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

For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. \*This product meets UL standards. Please see appendix for specific file numbers.



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# Routing, Protection and Insulation

## Wiring Duct

### High Density Slotted Wall Duct

#### High Density Slotted Wall Wiring Duct

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
184-22029*	SLHD2X5	2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	4.6 (116.8)	Black	30 ft
181-00320*		2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	4.6 (116.8)	Black	120 ft
181-00253*		2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	4.6 (116.8)	Gray	30 ft
181-00252*		2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	4.6 (116.8)	Gray	120 ft
181-00257*		2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	4.6 (116.8)	White	30 ft
181-00265*		2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	4.6 (116.8)	White	120 ft
184-22051*	SLHD2.5X3	2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Black	30 ft
181-00322*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Black	120 ft
181-00229*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Gray	30 ft
181-00228*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Gray	120 ft
181-00233*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	White	30 ft
181-00232*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	White	120 ft
184-22061*	SLHD3X1	3.0 (76.2)	1.1 (26.9)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Black	30 ft
181-00611*		3.0 (76.2)	1.1 (26.9)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Black	120 ft
184-22060*		3.0 (76.2)	1.1 (26.9)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Gray	30 ft
181-00612*		3.0 (76.2)	1.1 (26.9)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Gray	120 ft
184-05566*		3.0 (76.2)	1.1 (26.9)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	White	30 ft
181-00613*		3.0 (76.2)	1.1 (26.9)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	White	120 ft
184-32002*	SLHD3X2	3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	Black	30 ft
181-00614*		3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	Black	120 ft
184-32000*		3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	Gray	30 ft
184-32001*		3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	Gray	120 ft
184-32003*		3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	White	30 ft
184-32004*		3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	White	120 ft

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

For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. \*This product meets UL standards. Please see appendix for specific file numbers.



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### High Density Slotted Wall Duct

#### High Density Slotted Wall Wiring Duct

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
184-33014*	SLHD3X3	3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Black	30 ft
181-00615*		3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Black	120 ft
184-33000*		3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Gray	30 ft
184-33002*		3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Gray	120 ft
184-33003*		3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	White	30 ft
184-33004*		3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	White	120 ft
184-22032*	SLHD3X4	3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Black	30 ft
181-00616*		3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Black	120 ft
184-34000*		3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Gray	30 ft
184-34003*		3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Gray	120 ft
184-34004*		3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	White	30 ft
184-34005*		3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	White	120 ft
184-05560*	SLHD3X5	3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	4.6 (116.8)	Black	30 ft
181-00151*		3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	4.6 (116.8)	Black	120 ft
184-05559*		3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	4.6 (116.8)	Gray	30 ft
181-00150*		3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	4.6 (116.8)	Gray	120 ft
184-05558*		3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	4.6 (116.8)	White	30 ft
181-00149*		3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	4.6 (116.8)	White	120 ft

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# Routing, Protection and Insulation

## Wiring Duct

### High Density Slotted Wall Duct

#### High Density Slotted Wall Wiring Duct

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
184-42004*	SLHD4X2	4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	Black	30 ft
181-00617*		4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	Black	120 ft
184-42000*		4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	Gray	30 ft
184-42001*		4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	Gray	120 ft
184-42002*		4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	White	30 ft
184-42003*		4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	White	120 ft
184-22056*	SLHD4X3	4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Black	30 ft
181-00618*		4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Black	120 ft
184-43000*		4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Gray	30 ft
184-43001*		4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Gray	120 ft
184-43002*		4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	White	30 ft
184-43003*		4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	White	120 ft
184-05576*	SLHD4X4	4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Black	30 ft
181-00619*		4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Black	120 ft
184-44000*		4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Gray	30 ft
184-44002*		4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Gray	120 ft
184-44003*		4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	White	30 ft
184-44004*		4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	White	120 ft
181-00690*	SLHD4X5	4.0 (101.6)	5.1 (128.8)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	4.6 (116.8)	Black	60 ft
181-00692*		4.0 (101.6)	5.1 (128.8)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	4.6 (116.8)	Gray	60 ft
181-00691*		4.0 (101.6)	5.1 (128.8)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	4.6 (116.8)	White	60 ft

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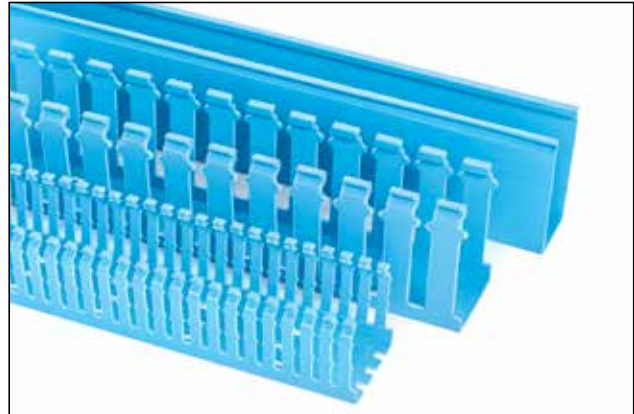
### High Density Slotted Wall Duct

#### High Density Slotted Wall Wiring Duct - Intrinsic Blue

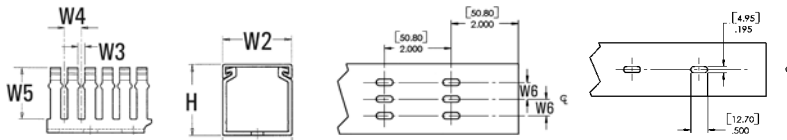
Manufactured from the same PVC material as standard Pro-Duct colors, HellermannTyton also offers an intrinsic blue color option. The intrinsic blue color indicates that the wiring contained in the duct runs to intrinsically safe components in the control panel. HellermannTyton Pro-Duct High-Density, Slotted-Wall Wiring Duct features narrow fingers equaling a 2 to 1 finger ratio compared to standard slotted wiring duct. With the narrow fingers, compact designs and components are more easily accommodated.

#### Features and Benefits

- Narrow fingers reduce fanning of the wires to the terminal blocks, presenting a neater appearance.
- Each finger is provided with a double restriction to hold wires in the bottom portion of the duct, allowing for easier installation.
- Mounting holes are uniform in size and are offered every 2 inches to accommodate compact designs and ease installation.
- Optional covers snap on and off easily, and are provided with a non-slip lining that insures the covers remain in place during vibration.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	Self-Extinguishing
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
184-05524*	SLHD1X1	1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Intrinsic Blue	120 ft
181-05532*	SLHD1X1.5	1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	1.2 (30.2)	Intrinsic Blue	120 ft
184-05570*	SLHD1X2	1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	Intrinsic Blue	120 ft
184-05568*	SLHD1X3	1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Intrinsic Blue	120 ft
184-05571*	SLHD1X4	1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Intrinsic Blue	120 ft
184-05537*	SLHD1.5X1	1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Intrinsic Blue	120 ft
184-05543*	SLHD1.5X1.5	1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	1.2 (30.5)	Intrinsic Blue	120 ft
184-05553*	SLHD1.5X2	1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	1.6 (40.6)	Intrinsic Blue	120 ft

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. \*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

# Routing, Protection and Insulation

## Wiring Duct

### High Density Slotted Wall Duct

#### High Density Slotted Wall Wiring Duct - Intrinsic Blue

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
184-22034*	SLHD1.5X3	1.5 (38.6)	3.1 (77.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Intrinsic Blue	120 ft
184-22037*	SLHD1.5X4	1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Intrinsic Blue	120 ft
184-22040*	SLHD2X1	2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Intrinsic Blue	120 ft
184-22022*	SLHD2X2	2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	1.6 (40.6)	Intrinsic Blue	120 ft
184-22024*	SLHD2X3	2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Intrinsic Blue	120 ft
184-22026*	SLHD2X4	2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Intrinsic Blue	120 ft
184-22028*	SLHD2X5	2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	4.6 (116.8)	Intrinsic Blue	120 ft
184-22050*	SLHD2.5X3	2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Intrinsic Blue	120 ft
184-05565*	SLHD3X1	3.0 (76.2)	1.1 (26.9)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Intrinsic Blue	120 ft
184-22044*	SLHD3X2	3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	Intrinsic Blue	120 ft
184-22053*	SLHD3X3	3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Intrinsic Blue	120 ft
181-00686*	SLHD3X4	3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Intrinsic Blue	120 ft
184-05557*	SLHD3X5	3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	4.6 (116.8)	Intrinsic Blue	120 ft
184-05564*	SLHD4X2	4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	Intrinsic Blue	120 ft
184-22055*	SLHD4X3	4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Intrinsic Blue	120 ft
184-05603*	SLHD4X4	4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Intrinsic Blue	120 ft

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

For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. \*This product meets UL standards. Please see appendix for specific file numbers.



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### High Density Slotted Wall Duct

#### High Density Slotted Wall Wiring Duct - Adhesive Back

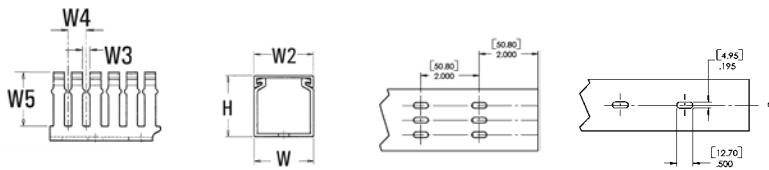
HellermannTyton High Density Slotted Wall Duct features narrow breakaway fingers, designed at a 2-to-1 ratio compared to standard slotted duct, providing additional access for wire leads. Narrower fingers better accommodate compact designs and components. Pressure-sensitive, rubber-based adhesive backing aids in temporary positioning.

#### Features and Benefits

- Narrow fingers reduce fanning of wires to terminal blocks, providing a neater appearance.
- Each finger features a double restriction to hold wires in the bottom portion of the duct, simplifying installation.
- Mounting holes are uniform in size to those in slotted and solid wall duct but are provided every two inches to accommodate compact designs and provide ease of installation.
- Nonpermanent adhesive allows repositioning prior to final installation.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	Self-Extinguishing
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
181-00637*	SLHDA1X1	1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Black	120 ft
184-11001*		1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Gray	30 ft
181-00621*		1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Gray	120 ft
184-11002*		1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	White	30 ft
181-00622*		1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	White	120 ft

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

For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. Adhesive back duct orders are non-cancellable and non-returnable. \*This product meets UL standards. Please see appendix for specific file numbers.



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# Routing, Protection and Insulation

## Wiring Duct

### High Density Slotted Wall Duct

#### High Density Slotted Wall Wiring Duct - Adhesive Back

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
181-00623*	SLHDA1X1.5	1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	1.2 (30.2)	Black	120 ft
184-11008*		1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	1.2 (30.2)	Gray	120 ft
184-11009*		1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	1.2 (30.2)	White	120 ft
181-00624*	SLHDA1X2	1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	Black	120 ft
184-12001*		1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	Gray	30 ft
184-12002*		1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	Gray	120 ft
184-12003*		1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	White	30 ft
184-12004*		1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	White	120 ft
181-00625*		SLHDA1X3	1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Black
184-13001*	1.0 (25.4)		3.1 (77.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Gray	30 ft
181-00626*	1.0 (25.4)		3.1 (77.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Gray	120 ft
184-13002*	1.0 (25.4)		3.1 (77.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	White	30 ft
184-13003*	1.0 (25.4)		3.1 (77.9)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	White	120 ft
181-00627*	SLHDA1X4		1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Black
181-00628*		1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Gray	120 ft
181-00629*		1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	White	120 ft
181-00630*	SLHDA1.5X1	1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Black	120 ft
181-00631*		1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Gray	120 ft
181-00632*		1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	White	120 ft

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

For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. Adhesive back duct orders are non-cancellable and non-returnable. \*This product meets UL standards.

Please see appendix for specific file numbers.



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### High Density Slotted Wall Duct

#### High Density Slotted Wall Wiring Duct - Adhesive Back

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
181-00633*	SLHDA1.5X1.5	1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	1.2 (30.5)	Black	120 ft
184-15151*		1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	1.2 (30.5)	Gray	120 ft
184-15153*		1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	1.2 (30.5)	White	120 ft
181-00634*	SLHDA1.5X2	1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	1.6 (40.6)	Black	120 ft
184-15201*		1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	1.6 (40.6)	Gray	120 ft
184-15205*		1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	1.6 (40.6)	White	120 ft
181-00635*	SLHDA1.5X3	1.5 (38.1)	3.1 (77.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Black	120 ft
181-00636*		1.5 (38.1)	3.1 (77.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Gray	120 ft
184-15301*		1.5 (38.1)	3.1 (77.9)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	White	120 ft
181-00620*	SLHDA1.5X4	1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Black	120 ft
181-00638*		1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Gray	120 ft
181-00639*		1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	White	120 ft
181-00640*	SLHDA2X1	2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Black	120 ft
184-21001*		2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Gray	30 ft
181-00641*		2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Gray	120 ft
181-00676*		2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	White	30 ft
181-00642*		2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	White	120 ft
181-00643*	SLHDA2X2	2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	1.6 (40.6)	Black	120 ft
184-22001*		2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	1.6 (40.6)	Gray	30 ft
181-00644*		2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	1.6 (40.6)	Gray	120 ft
184-22002*		2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	1.6 (40.6)	White	30 ft
184-22003*		2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	1.6 (40.6)	White	120 ft

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

For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. Adhesive back duct orders are non-cancellable and non-returnable. \*This product meets UL standards.

Please see appendix for specific file numbers.



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# Routing, Protection and Insulation

## Wiring Duct

### High Density Slotted Wall Duct

#### High Density Slotted Wall Wiring Duct - Adhesive Back

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
181-00645*	SLHDA2X3	2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Black	120 ft
184-23001*		2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Gray	30 ft
181-00646*		2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Gray	120 ft
184-23002*		2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	White	30 ft
184-23003*		2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	White	120 ft
181-00647*	SLHDA2X4	2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Black	120 ft
184-24001*		2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Gray	30 ft
181-00648*		2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Gray	120 ft
184-24002*		2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	White	30 ft
184-24003*		2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	White	120 ft
181-00321*	SLHDA2X5	2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	4.6 (116.8)	Black	120 ft
181-00254*		2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	4.6 (116.8)	Gray	120 ft
181-00259*		2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	0.2 (4.1)	0.4 (10.2)	4.6 (116.8)	White	120 ft
181-00323*	SLHDA2.5X3	2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Black	120 ft
181-00231*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Gray	30 ft
181-00230*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Gray	120 ft
181-00235*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	White	30 ft
181-00234*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	White	120 ft
181-00649*	SLHDA3X1	3.0 (76.2)	1.1 (26.9)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Black	120 ft
181-00651*		3.0 (76.2)	1.1 (26.9)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	Gray	120 ft
181-00652*		3.0 (76.2)	1.1 (26.9)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	0.8 (19.1)	White	120 ft

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### High Density Slotted Wall Duct

#### High Density Slotted Wall Wiring Duct - Adhesive Back

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Color	Pkg. Qty.
181-00653*	SLHDA3X2	3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	Black	120 ft
181-00654*		3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	Gray	120 ft
181-00655*		3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	White	120 ft
181-00656*	SLHDA3X3	3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Black	120 ft
181-00657*		3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Gray	120 ft
184-33001*		3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	White	120 ft
181-00658*	SLHDA3X4	3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Black	120 ft
181-00659*		3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Gray	120 ft
184-34001*		3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	White	120 ft
181-00660*	SLHDA3X5	3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	4.6 (116.8)	Black	120 ft
181-00661*		3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	4.6 (116.8)	Gray	120 ft
181-00662*		3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	0.2 (4.1)	0.4 (10.2)	4.6 (116.8)	White	120 ft
181-00663*	SLHDA4X2	4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	Black	120 ft
181-00664*		4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	Gray	120 ft
181-00665*		4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	1.6 (41.1)	White	120 ft
181-00154*	SLHDA4X3	4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Black	120 ft
181-00153*		4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	Gray	120 ft
181-00152*		4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	2.6 (66.0)	White	120 ft
181-00666*	SLHDA4X4	4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Black	120 ft
181-00667*		4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	Gray	120 ft
184-44001*		4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	3.6 (91.4)	White	120 ft
181-00668*	SLHDA4X5	4.0 (101.6)	5.1 (128.8)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	4.6 (116.8)	Black	60 ft
181-00670*		4.0 (101.6)	5.1 (128.8)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	4.6 (116.8)	Gray	60 ft
181-00669*		4.0 (101.6)	5.1 (128.8)	4.0 (101.6)	0.2 (4.1)	0.4 (10.2)	4.6 (116.8)	White	60 ft

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

For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. Adhesive back duct orders are non-cancellable and non-returnable. \*This product meets UL standards.

Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

# Routing, Protection and Insulation

## Wiring Duct

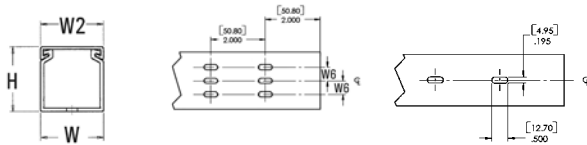
### Solid Wall Duct

#### Solid Wall Wiring Duct

HellermannTyton's Pro-Duct, Solid Wall wiring duct efficiently routes and protects wire. Solid Wall wiring duct is designed for straight wire runs where break outs are not required. Pro-Duct, Solid Wall wiring duct is manufactured from high impact, rigid PVC, comes in standard colors of white, gray and black, and is available in 6-foot lengths.

#### Features and Benefits

- Solid wall construction provides excellent coverage to keep wires clean.
- Durable material protects wires from damage, with long-lasting performance.
- Available standard colors complement or contrast in light and dark environments.
- Optional covers snap on and off easily, and are provided with a non-slip lining that insures the covers remain in place during vibration.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	Self-Extinguishing
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Color	Pkg. Qty.
181-05505*	SD.5X.5	0.5 (12.7)	0.6 (14.0)	0.8 (19.3)	Black	30 ft
181-05500*		0.5 (12.7)	0.6 (14.0)	0.8 (19.3)	Black	120 ft
181-00452*		0.5 (12.7)	0.6 (14.0)	0.8 (19.3)	Gray	30 ft
181-05501*		0.5 (12.7)	0.6 (14.0)	0.8 (19.3)	Gray	120 ft
181-05503*		0.5 (12.7)	0.6 (14.0)	0.8 (19.3)	White	30 ft
181-00453*		0.5 (12.7)	0.6 (14.0)	0.8 (19.3)	White	120 ft
181-05510*	SD.5X1	0.5 (12.7)	1.1 (26.7)	0.8 (19.3)	Black	30 ft
181-05100*		0.5 (12.7)	1.1 (26.7)	0.8 (19.3)	Gray	30 ft
181-05102*		0.5 (12.7)	1.1 (26.7)	0.8 (19.3)	White	30 ft

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. \*This product meets UL standards. Please see appendix for specific file numbers.



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### Solid Wall Duct

#### Solid Wall Wiring Duct

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Color	Pkg. Qty.
181-05515*	SD.75X.75	0.8 (19.1)	0.8 (20.3)	1.0 (25.4)	Black	30 ft
181-75750*		0.8 (19.1)	0.8 (20.3)	1.0 (25.4)	Gray	30 ft
181-05514*		0.8 (19.1)	0.8 (20.3)	1.0 (25.4)	White	30 ft
181-00456*		0.8 (19.1)	0.8 (20.3)	1.0 (25.4)	White	120 ft
181-05519*	SD1X1	1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	Black	30 ft
181-11000*		1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	Black	120 ft
181-00170*		1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	Gray	30 ft
181-11002*		1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	Gray	120 ft
181-11004*		1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	White	30 ft
181-11005*		1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	White	120 ft
181-00457*	SD1X1.5	1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	Black	120 ft
181-11501*		1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	Gray	120 ft
181-11502*		1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	White	120 ft
181-05571*	SD1X2	1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	Black	30 ft
181-00458*		1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	Black	120 ft
181-00172*		1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	Gray	30 ft
181-12001*		1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	Gray	120 ft
181-00187*		1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	White	30 ft
181-12002*		1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	White	120 ft

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. \*This product meets UL standards. Please see appendix for specific file numbers.



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# Routing, Protection and Insulation

## Wiring Duct

### Solid Wall Duct

#### Solid Wall Wiring Duct

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Color	Pkg. Qty.
181-05568*	SD1X3	1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	Black	30 ft
181-00459*		1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	Black	120 ft
181-00174*		1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	Gray	30 ft
181-00136*		1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	Gray	120 ft
181-00189*		1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	White	30 ft
181-13001*		1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	White	120 ft
181-00460*	SD1X4	1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	Black	120 ft
181-00461*		1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	Gray	120 ft
181-14000*		1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	White	120 ft
181-05585*	SD1.5X1	1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	Black	30 ft
181-15100*		1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	Black	120 ft
181-00325*		1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	Gray	30 ft
181-15101*		1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	Gray	120 ft
181-05584*		1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	White	30 ft
181-15102*		1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	White	120 ft
181-15517*	SD1.5X1.5	1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	Black	30 ft
181-15500*		1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	Black	120 ft
181-00176*		1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	Gray	30 ft
181-15502*		1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	Gray	120 ft
181-00193*		1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	White	30 ft
181-15503*		1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	White	120 ft

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. \*This product meets UL standards. Please see appendix for specific file numbers.



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### Solid Wall Duct

#### Solid Wall Wiring Duct

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Color	Pkg. Qty.
181-05547*	SD1.5X2	1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	Black	30 ft
181-00462*		1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	Black	120 ft
181-15200*		1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	Gray	30 ft
181-15201*		1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	Gray	120 ft
181-00195*		1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	White	30 ft
181-15202*		1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	White	120 ft
181-23065*		SD1.5X3	1.5 (38.1)	3.1 (77.9)	1.5 (38.1)	Black
181-00463*	1.5 (38.1)		3.1 (77.9)	1.5 (38.1)	Black	120 ft
181-23064*	1.5 (38.1)		3.1 (77.9)	1.5 (38.1)	Gray	30 ft
181-15300*	1.5 (38.1)		3.1 (77.9)	1.5 (38.1)	Gray	120 ft
181-00464*	1.5 (38.1)		3.1 (77.9)	1.5 (38.1)	White	120 ft
181-23074*	SD1.5X4		1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	Black
181-00465*		1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	Black	120 ft
181-23073*		1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	Gray	30 ft
181-00574*		1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	Gray	120 ft
181-23072*		1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	White	30 ft
181-00467*		1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	White	120 ft

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# Routing, Protection and Insulation

## Wiring Duct

### Solid Wall Duct

#### Solid Wall Wiring Duct

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Color	Pkg. Qty.
181-23082*	SD2X1	2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	Black	30 ft
181-21000*		2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	Black	120 ft
181-00204*		2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	Gray	30 ft
181-21001*		2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	Gray	120 ft
181-21002*		2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	White	30 ft
181-21003*		2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	White	120 ft
181-23021*	SD2X2	2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	Black	30 ft
181-22005*		2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	Black	120 ft
181-22006*		2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	Gray	30 ft
181-22008*		2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	Gray	120 ft
181-22011*		2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	White	30 ft
181-22013*		2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	White	120 ft
181-00205*	SD2X3	2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	Black	30 ft
181-00468*		2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	Black	120 ft
181-23000*		2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	Gray	30 ft
181-23001*		2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	Gray	120 ft
181-00198*		2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	White	30 ft
181-23002*		2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	White	120 ft
181-00469*	SD2X4	2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	Black	120 ft
181-24000*		2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	Gray	120 ft
181-24001*		2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	White	30 ft
181-24002*		2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	White	120 ft

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

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### Solid Wall Duct

#### Solid Wall Wiring Duct

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Color	Pkg. Qty.
181-23033*	SD2X5	2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	Black	30 ft
181-00312*		2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	Black	120 ft
181-00245*		2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	Gray	30 ft
181-00244*		2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	Gray	120 ft
181-00249*		2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	White	30 ft
181-00248*		2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	White	120 ft
181-23039*	SD2.5X3	2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	Black	30 ft
181-00314*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	Black	120 ft
181-00221*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	Gray	30 ft
181-00220*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	Gray	120 ft
181-00225*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	White	30 ft
181-00224*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	White	120 ft
181-00470*	SD3X1	3.0 (76.2)	1.1 (26.9)	3.0 (76.2)	Black	120 ft
181-31001*		3.0 (76.2)	1.1 (26.9)	3.0 (76.2)	Gray	120 ft
181-31002*		3.0 (76.2)	1.1 (26.9)	3.0 (76.2)	White	120 ft
181-00471*	SD3X2	3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	Black	120 ft
181-00164*		3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	Gray	30 ft
181-32002*		3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	Gray	120 ft
181-00200*		3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	White	30 ft
181-32003*		3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	White	120 ft

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. \*This product meets UL standards. Please see appendix for specific file numbers.



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# Routing, Protection and Insulation

## Wiring Duct

### Solid Wall Duct

#### Solid Wall Wiring Duct

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Color	Pkg. Qty.
181-33000*	SD3X3	3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	Black	120 ft
181-33002*		3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	Gray	30 ft
181-33004*		3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	Gray	120 ft
181-33005*		3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	White	30 ft
181-33006*		3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	White	120 ft
181-23048*	SD3X4	3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	Black	30 ft
181-00472*		3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	Black	120 ft
181-34000*		3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	Gray	120 ft
181-23046*		3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	White	30 ft
181-34001*		3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	White	120 ft
181-01400*	SD3X5	3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	Black	30 ft
181-00473*		3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	Black	120 ft
181-23058*		3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	Gray	30 ft
181-00474*		3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	Gray	120 ft
181-23057*		3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	White	30 ft
181-00475*		3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	White	120 ft
181-05594*	SD4X2	4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	Black	30 ft
181-00476*		4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	Black	120 ft
181-00185*		4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	Gray	30 ft
181-42002*		4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	Gray	120 ft
181-00203*		4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	White	30 ft
181-42004*		4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	White	120 ft

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### Solid Wall Duct

#### Solid Wall Wiring Duct

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Color	Pkg. Qty.
181-00477*	SD4X3	4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	Black	120 ft
181-43001*		4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	Gray	120 ft
181-43002*		4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	White	120 ft
181-00478*	SD4X4	4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	Black	30 ft
181-44006*		4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	Black	120 ft
181-44007*		4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	Gray	30 ft
181-44009*		4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	Gray	120 ft
181-44013*		4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	White	30 ft
181-44015*		4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	White	120 ft
181-00137*		SD4X5	4.0 (101.6)	5.1 (128.8)	4.0 (101.6)	Black
181-45000*	4.0 (101.6)		5.1 (128.8)	4.0 (101.6)	Gray	60 ft
181-45001*	4.0 (101.6)		5.1 (128.8)	4.0 (101.6)	White	60 ft
181-00479*	SD6X4	6.0 (152.4)	4.1 (103.4)	6.0 (152.4)	Black	60 ft
181-64000*		6.0 (152.4)	4.1 (103.4)	6.0 (152.4)	Gray	60 ft
181-00480*	SD8X4	8.0 (203.2)	4.1 (103.4)	8.0 (203.2)	Black	30 ft
181-84004*		8.0 (203.2)	4.1 (103.4)	8.0 (203.2)	Gray	30 ft
181-84007*		8.0 (203.2)	4.1 (103.4)	8.0 (203.2)	White	30 ft

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

For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. \*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

# Routing, Protection and Insulation

## Wiring Duct

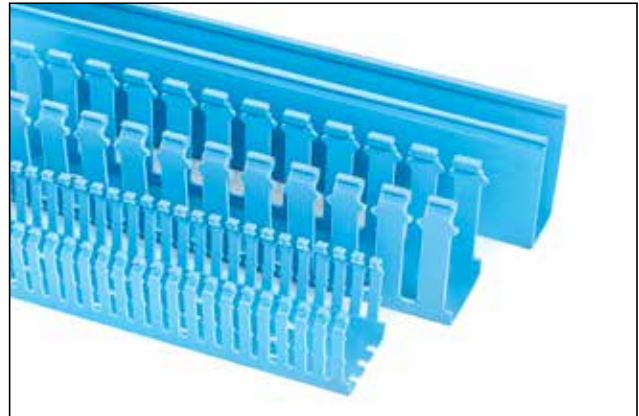
### Solid Wall Wiring Duct

#### Solid Wall Wiring Duct - Intrinsic Blue

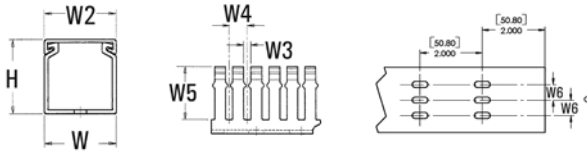
Manufactured from the same PVC material as standard Pro-Duct colors, HellermannTyton also offers an intrinsic blue color option. The intrinsic blue color indicates that the wiring contained in the duct runs to intrinsically safe components in the control panel. Solid Wall wiring duct is designed for straight wire runs where break outs are not required. Available in 6-foot lengths.

#### Features and Benefits

- Solid wall construction provides excellent coverage to keep wires clean.
- Durable material protects wires from damage, with long-lasting performance.
- A temporary film is applied to the covers to protect against scratches and is writable for identification during installation.
- Optional covers snap on and off easily, and are provided with a non-slip lining that insures the covers remain in place during vibration.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	Self-Extinguishing
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Color	Pkg. Qty.
181-05518*	SD1X1	1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	Intrinsic Blue	120 ft
181-05527*	SD1X1.5	1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	Intrinsic Blue	120 ft
181-05572*	SD1X2	1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	Intrinsic Blue	120 ft
181-05567*	SD1X3	1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	Intrinsic Blue	120 ft
181-05573*	SD1X4	1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	Intrinsic Blue	120 ft
181-05583*	SD1.5X1	1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	Intrinsic Blue	120 ft
181-05540*	SD1.5X1.5	1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	Intrinsic Blue	120 ft
181-05546*	SD1.5X2	1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	Intrinsic Blue	120 ft
181-23063*	SD1.5X3	1.5 (38.1)	3.1 (77.9)	1.5 (38.1)	Intrinsic Blue	120 ft

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. For wire fill capacities and wiring duct material properties, see appendix.



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### Solid Wall Wiring Duct

#### Solid Wall Wiring Duct - Intrinsic Blue

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Color	Pkg. Qty.
181-23071*	SD1.5X4	1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	Intrinsic Blue	120 ft
181-23081*	SD2X1	2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	Intrinsic Blue	120 ft
181-23020*	SD2X2	2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	Intrinsic Blue	120 ft
181-23022*	SD2X3	2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	Intrinsic Blue	120 ft
181-23025*	SD2X4	2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	Intrinsic Blue	120 ft
181-23032*	SD2X5	2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	Intrinsic Blue	120 ft
181-23038*	SD2.5X3	2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	Intrinsic Blue	120 ft
181-05555*	SD3X1	3.0 (76.2)	1.1 (26.9)	3.0 (76.2)	Intrinsic Blue	120 ft
181-23040*	SD3X2	3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	Intrinsic Blue	120 ft
181-23094*	SD3X3	3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	Intrinsic Blue	120 ft
181-23045*	SD3X4	3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	Intrinsic Blue	120 ft
181-23056*	SD3X5	3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	Intrinsic Blue	120 ft
181-05593*	SD4X2	4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	Intrinsic Blue	120 ft
181-23097*	SD4X3	4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	Intrinsic Blue	120 ft
181-05599*	SD4X4	4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	Intrinsic Blue	120 ft
181-05603*	SD4X5	4.0 (101.6)	5.1 (128.8)	4.0 (101.6)	Intrinsic Blue	60 ft

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
For wire fill capacities and wiring duct material properties, see appendix.



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# Routing, Protection and Insulation

## Wiring Duct

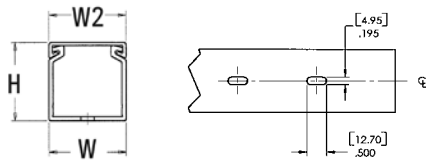
### Solid Wall Duct

#### Solid Wall Wiring Duct - Adhesive Back

HellermannTyton Solid Wall Duct efficiently routes and protects wire. It is designed for straight wire runs where break-outs are not required. Manufactured from high impact, rigid PVC, it comes in six-foot lengths. Pressure-sensitive, rubber-based adhesive backing aids in temporary positioning.

#### Features and Benefits

- Solid wall construction provides excellent coverage to keep wires clean.
- Durable material protects wires from damage, with long-lasting performance.
- Standard colors complement or contrast light and dark environments.
- Nonpermanent adhesive allows repositioning prior to final installation.
- Optional covers snap on and off easily, and their nonslip lining ensures they stay in place even under vibration.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	Self-Extinguishing
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Color	Pkg. Qty.
181-75752*	SDA.75X.75	0.8 (19.1)	0.8 (20.3)	1.0 (25.4)	Gray	30 ft
181-00142*		0.8 (19.1)	0.8 (20.3)	1.0 (25.4)	White	120 ft
181-00492*	SDA1X1	1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	Black	30 ft
181-11006*		1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	Black	120 ft
181-00493*		1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	Gray	120 ft
181-11008*		1.0 (25.4)	1.1 (26.9)	1.0 (25.4)	White	120 ft

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

For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. Adhesive back duct orders are non-cancellable and non-returnable. \*This product meets UL standards. Please see appendix for specific file numbers.



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### Solid Wall Duct

#### Solid Wall Wiring Duct - Adhesive Back

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Color	Pkg. Qty.
181-00529*	SDA1X1.5	1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	Black	120 ft
181-00490*		1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	Gray	120 ft
181-00491*		1.0 (25.4)	1.6 (39.9)	1.0 (25.4)	White	120 ft
181-00530*	SDA1X2	1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	Black	120 ft
181-00494*		1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	Gray	120 ft
181-00495*		1.0 (25.4)	2.1 (52.6)	1.0 (25.4)	White	120 ft
181-00531*	SDA1X3	1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	Black	120 ft
181-00671*		1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	Gray	120 ft
181-00496*		1.0 (25.4)	3.1 (77.9)	1.0 (25.4)	White	120 ft
181-00532*	SDA1X4	1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	Black	120 ft
181-00533*		1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	Gray	120 ft
181-00497*		1.0 (25.4)	4.1 (103.4)	1.0 (25.4)	White	120 ft
181-00485*	SDA1.5X1	1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	Black	120 ft
181-00175*		1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	Gray	120 ft
181-00486*		1.5 (38.1)	1.1 (26.9)	1.5 (38.1)	White	120 ft
181-00482*	SDA1.5X1.5	1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	Black	120 ft
181-00483*		1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	Gray	120 ft
181-15504*		1.5 (38.1)	1.6 (39.9)	1.5 (38.1)	White	120 ft
181-00534*	SDA1.5X2	1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	Black	120 ft
181-00487*		1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	Gray	120 ft
181-00488*		1.5 (38.1)	2.1 (52.6)	1.5 (38.1)	White	120 ft

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

For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. Adhesive back duct orders are non-cancellable and non-returnable. \*This product meets UL standards. Please see appendix for specific file numbers.



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# Routing, Protection and Insulation

## Wiring Duct

### Solid Wall Duct

#### Solid Wall Wiring Duct - Adhesive Back

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Color	Pkg. Qty.
181-00535*	SDA1.5X3	1.5 (38.1)	3.1 (77.9)	1.5 (38.1)	Black	120 ft
181-00489*		1.5 (38.1)	3.1 (77.9)	1.5 (38.1)	Gray	120 ft
181-00536*		1.5 (38.1)	3.1 (77.9)	1.5 (38.1)	White	120 ft
181-00537*	SDA1.5X4	1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	Black	120 ft
181-00538*		1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	Gray	120 ft
181-00539*		1.5 (38.1)	4.1 (103.4)	1.5 (38.1)	White	120 ft
181-00498*	SDA2X1	2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	Black	120 ft
181-00499*		2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	Gray	120 ft
181-00500*		2.0 (50.8)	1.1 (26.9)	2.0 (50.8)	White	120 ft
181-00501*	SDA2X2	2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	Black	120 ft
181-22016*		2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	Gray	120 ft
181-22017*		2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	White	30 ft
181-22018*		2.0 (50.8)	2.1 (52.6)	2.0 (50.8)	White	120 ft
181-00540*	SDA2X3	2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	Black	120 ft
181-00503*		2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	Gray	120 ft
181-00504*		2.0 (50.8)	3.1 (77.9)	2.0 (50.8)	White	120 ft
181-00541*	SDA2X4	2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	Black	120 ft
181-00505*		2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	Gray	120 ft
181-00506*		2.0 (50.8)	4.1 (103.4)	2.0 (50.8)	White	120 ft

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

For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. Adhesive back duct orders are non-cancellable and non-returnable. \*This product meets UL standards. Please see appendix for specific file numbers.



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### Solid Wall Duct

#### Solid Wall Wiring Duct - Adhesive Back

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Color	Pkg. Qty.
181-00313*	SDA2X5	2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	Black	120 ft
181-00246*		2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	Gray	120 ft
181-00250*		2.0 (50.8)	5.1 (128.8)	2.0 (50.8)	White	120 ft
181-00315*	SDA2.5X3	2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	Black	120 ft
181-00223*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	Gray	30 ft
181-00222*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	Gray	120 ft
181-00227*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	White	30 ft
181-00226*		2.5 (63.5)	3.1 (77.9)	2.5 (63.5)	White	120 ft
181-00672*		SDA3X1	3.0 (76.2)	1.1 (26.9)	3.0 (76.2)	Black
181-00507*	3.0 (76.2)		1.1 (26.9)	3.0 (76.2)	Gray	120 ft
181-00508*	3.0 (76.2)		1.1 (26.9)	3.0 (76.2)	White	120 ft
181-00542*	SDA3X2	3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	Black	120 ft
181-00509*		3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	Gray	120 ft
181-00510*		3.0 (76.2)	2.1 (52.6)	3.0 (76.2)	White	120 ft
181-00511*	SDA3X3	3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	Black	120 ft
181-00512*		3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	Gray	120 ft
181-00513*		3.0 (76.2)	3.1 (77.9)	3.0 (76.2)	White	120 ft
181-00147*	SDA3X4	3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	Black	120 ft
181-00514*		3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	Gray	120 ft
181-00515*		3.0 (76.2)	4.1 (103.4)	3.0 (76.2)	White	120 ft

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

For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. Adhesive back duct orders are non-cancellable and non-returnable. \*This product meets UL standards. Please see appendix for specific file numbers.



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# Routing, Protection and Insulation

## Wiring Duct

### Solid Wall Duct

#### Solid Wall Wiring Duct - Adhesive Back

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Color	Pkg. Qty.
181-00543*	SDA3X5	3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	Black	120 ft
181-00148*		3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	Gray	120 ft
181-00544*		3.0 (76.2)	5.1 (128.5)	3.0 (76.2)	White	120 ft
181-00545*	SDA4X2	4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	Black	120 ft
181-00516*		4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	Gray	120 ft
181-00517*		4.0 (101.6)	2.1 (52.6)	4.0 (101.6)	White	120 ft
181-00546*	SDA4X3	4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	Black	120 ft
181-00518*		4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	Gray	120 ft
181-00519*		4.0 (101.6)	3.1 (77.9)	4.0 (101.6)	White	120 ft
181-00520*	SDA4X4	4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	Black	120 ft
181-44018*		4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	Gray	120 ft
181-00521*		4.0 (101.6)	4.1 (103.4)	4.0 (101.6)	White	120 ft
181-00547*	SDA4X5	4.0 (101.6)	5.1 (128.8)	4.0 (101.6)	Black	60 ft
181-00522*		4.0 (101.6)	5.1 (128.8)	4.0 (101.6)	Gray	60 ft
181-00523*		4.0 (101.6)	5.1 (128.8)	4.0 (101.6)	White	60 ft

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
For wire fill capacities and wiring duct material properties, see appendix. Sold in 6-ft. lengths. Adhesive back duct orders are non-cancellable and non-returnable. \*This product meets UL standards.  
Please see appendix for specific file numbers.



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### Duct Covers

#### Wiring Duct Covers

HellermannTyton Pro-Duct wiring duct covers are sold separately and are interchangeable among the three styles of duct (solid, slotted and high density.) Manufactured from high impact, rigid PVC, Pro-Duct covers come in standard colors of white, gray and black. Wiring duct covers are available in 6-foot lengths.

#### Features and Benefits

- A temporary film is applied to the covers to protect against scratches and is writable for identification during installation.
- Cover is flush with the side of the duct for increased wire capacity and allows for tight, side-by-side duct placement.
- Covers are provided with a nonslip lining that ensures the covers remain in place during vibration, yet easily snap on and off.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	Self-Extinguishing
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Width (W) in. (mm)	Color	Pkg. Qty.
181-90052*	TC.5	0.6 (16.3)	Black	30 ft
181-90050*		0.6 (16.3)	Black	120 ft
181-00442*		0.6 (16.3)	Gray	30 ft
181-90051*		0.6 (16.3)	Gray	120 ft
181-91517*		0.6 (16.3)	White	30 ft
181-00443*		0.6 (16.3)	White	120 ft
181-00445*	TC.75	0.9 (22.6)	Black	120 ft
181-00446*		0.9 (22.6)	Gray	30 ft
181-90750*		0.9 (22.6)	Gray	120 ft
181-00447*		0.9 (22.6)	White	30 ft
181-90751*		0.9 (22.6)	White	120 ft
181-00444*	TC1	1.0 (25.4)	Black	30 ft
181-91000*		1.0 (25.4)	Black	120 ft
181-91003*		1.0 (25.4)	Gray	30 ft
181-91004*		1.0 (25.4)	Gray	120 ft
181-91007*		1.0 (25.4)	White	30 ft
181-91008*		1.0 (25.4)	White	120 ft

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# Routing, Protection and Insulation

## Wiring Duct

### Duct Covers

#### Wiring Duct Covers

PART NO.	TYPE	Width (W) in. (mm)	Color	Pkg. Qty.
181-91516*	TC1.5	1.5 (38.1)	Black	30 ft
181-91503*		1.5 (38.1)	Black	120 ft
181-91506*		1.5 (38.1)	Gray	30 ft
181-91507*		1.5 (38.1)	Gray	120 ft
181-91509*		1.5 (38.1)	White	30 ft
181-91510*		1.5 (38.1)	White	120 ft
181-92015*	TC2	2.0 (50.8)	Black	30 ft
181-92001*		2.0 (50.8)	Black	120 ft
181-92004*		2.0 (50.8)	Gray	30 ft
181-92005*		2.0 (50.8)	Gray	120 ft
181-92010*		2.0 (50.8)	White	30 ft
181-92011*		2.0 (50.8)	White	120 ft
181-00311*	TC2.5	2.5 (63.5)	Black	120 ft
181-00261*		2.5 (63.5)	Gray	30 ft
181-00260*		2.5 (63.5)	Gray	120 ft
181-00263*		2.5 (63.5)	White	30 ft
181-00262*		2.5 (63.5)	White	120 ft
181-93000*	TC3	3.0 (76.2)	Black	30 ft
181-93003*		3.0 (76.2)	Black	120 ft
181-93007*		3.0 (76.2)	Gray	30 ft
181-93008*		3.0 (76.2)	Gray	120 ft
181-93010*		3.0 (76.2)	White	30 ft
181-93011*		3.0 (76.2)	White	120 ft
181-94000*	TC4	4.0 (101.6)	Black	30 ft
181-94003*		4.0 (101.6)	Black	120 ft
181-94008*		4.0 (101.6)	Gray	30 ft
181-94009*		4.0 (101.6)	Gray	120 ft
181-94013*		4.0 (101.6)	White	30 ft
181-94014*		4.0 (101.6)	White	120 ft
181-00448*	TC6	6.0 (152.4)	Black	30 ft
181-96000*		6.0 (152.4)	Gray	30 ft
181-96002*		6.0 (152.4)	White	30 ft
181-00449*	TC8	8.0 (203.2)	Black	60 ft
181-00165*		8.0 (203.2)	Gray	30 ft
181-00450*		8.0 (203.2)	Gray	60 ft
181-00166*		8.0 (203.2)	White	30 ft
181-00451*		8.0 (203.2)	White	60 ft

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Sold in 6-ft. lengths. \*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

### Duct Covers

#### Wiring Duct Covers - Intrinsic Blue

Manufactured from the same PVC material as standard Pro-Duct colors, HellermannTyton also offers an intrinsic blue color option. The intrinsic blue color indicates that the wiring contained in the duct runs to intrinsically safe components in the control panel. HellermannTyton Pro-Duct wiring duct covers are sold separately and are interchangeable among the three styles of duct (solid, slotted and high density.) Wiring duct covers are available in 6-foot lengths.

#### Features and Benefits

- A temporary film is applied to the covers to protect against scratches and is writable for identification during installation.
- Cover is flush with the side of the duct for increased wire capacity and allows for tight, side-by-side duct placement.
- Covers are provided with a nonslip lining that ensures the covers remain in place during vibration, yet easily snap on and off.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	Self-Extinguishing
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Width (W) in. (mm)	Color	Pkg. Qty.
181-91002*	TC1	1.0 (25.4)	Blue	120 ft
181-91505*	TC1.5	1.5 (38.1)	Blue	120 ft
181-92002*	TC2	2.0 (50.8)	Blue	30 ft
181-92003*		2.0 (50.8)	Blue	120 ft
181-93005*	TC3	3.0 (76.2)	Blue	120 ft
181-94007*	TC4	4.0 (101.6)	Blue	120 ft

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Sold in 6-ft. lengths. \*This product meets UL standards. Please see appendix for specific file numbers.



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# Routing, Protection and Insulation

## Wiring Duct

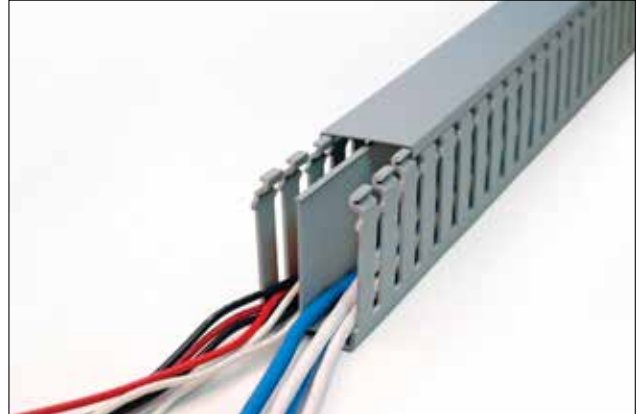
### Duct Dividers

#### Wiring Duct Dividers

Solid-Wall Dividers can be securely mounted into all types of HellermannTyton wiring duct to separate high and low voltage, thus reducing interference. The dividers simply snap or slide into the specially designed mount, instantly creating multiple channels within a single duct size.

#### Features and Benefits

- Dividers have continuous score lines for smooth breakouts.
- Top of the dividers has a double-sided lip which reduces the likelihood of wires falling out during installation.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	Self-Extinguishing
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Description	Color	Pkg. Qty.
181-00300	DV1	0.8 (19.1)	0.9 (22.9)	Wiring Duct Divider, 1" High	Gray	120 ft
181-00305		0.8 (19.1)	0.9 (22.9)	Wiring Duct Divider, 1" High	White	120 ft
181-00301	DV1.5	0.8 (19.1)	1.4 (35.6)	Wiring Duct Divider, 1.5" High	Gray	120 ft
181-00306		0.8 (19.1)	1.4 (35.6)	Wiring Duct Divider, 1.5" High	White	120 ft
181-00302	DV2	0.8 (19.1)	1.9 (47.0)	Wiring Duct Divider, 2" High	Gray	120 ft
181-00307		0.8 (19.1)	1.9 (47.0)	Wiring Duct Divider, 2" High	White	120 ft
181-00303	DV3	0.8 (19.6)	2.9 (72.4)	Wiring Duct Divider, 3" High	Gray	120 ft
181-00308		0.8 (19.6)	2.9 (72.4)	Wiring Duct Divider, 3" High	White	120 ft
181-00304	DV4	0.8 (19.6)	3.9 (97.8)	Wiring Duct Divider, 4" High	Gray	120 ft
181-00309		0.8 (19.6)	3.9 (97.8)	Wiring Duct Divider, 4" High	White	120 ft

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Sold in 6-ft. lengths.

### Duct Dividers

#### Universal Wiring Duct Mount

The HellermannTyton universal wiring duct mount is a multi-purpose mount that secures duct dividers or secures wire bundles inside the duct with a cable tie. The mount can be installed with duct panel rivets or mechanical fasteners. The bottom of the mount has locator tabs that fit into the duct mounting holes, preventing the mount from spinning during installation.

#### Features and Benefits

- Tabs align the mount for easy divider installation.
- Top of the mount creates separation between wires and the fastener head which protects the wires from abrasion.
- When used as a duct divider mount, the divider snaps or slides over the mount resulting in a quick, secure installation.
- When used as a wire bundle mount, simply slide the cable tie through any of the four-way tie slots to secure the bundle and prevent the cables from falling outside the duct during installation and cover removal.



<b>MATERIAL</b>	Polyamide 6.6 V0 (PA66V0)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	-40°F to +230°F (-40°C to +110°C)



<b>PART NO.</b>	<b>TYPE</b>	<b>Color</b>	<b>Pkg. Qty.</b>
181-00684	DVM	Black	100

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

### Duct Tools and Accessories

#### Solid Wall Wire Retainers

Wire Retainers are inserted in the duct and snap into place. The retainer can be used on any smooth, straight run of duct and can work with vertical and overhead applications. Solid wall wire retainers are manufactured from black PVC.

#### Features and Benefits

- Effectively retains wires in duct when covers are removed.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 HB
<b>Operating Temperature</b>	+23°F to +185°F (-5°C to +85°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
SDWR4X40P2	SDWR4X40	Wire Retainer, Solid Style for 4" x 4" Duct	Black	10
SDWR2X20K2	SDWR2X20	Wire Retainer, Solid Style for 2" x 2" Duct	Black	50

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



### Duct Tools and Accessories

#### Slotted Wall Wire Retainers

Slotted wall wire retainers snap in from the outside of the duct, allowing for fast and easy installation and removal. Slotted wall wire retainers are manufactured from black nylon 6/6.

#### Features and Benefits

- Retainer spans approximately 90% over the duct opening for effective wire management.



<b>MATERIAL</b>	Polyamide 6 (PA6)
<b>Flammability</b>	UL 94 HB
<b>Operating Temperature</b>	+23°F to +185°F (-5°C to +85°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
SLWR40C2	SLWR40	Wire Retainer, Slotted Style for 4" Duct	Black	100
SLWR30C2	SLWR30	Wire Retainer, Slotted Style for 3" Duct	Black	100
SLWR20C2	SLWR20	Wire Retainer, Slotted Style for 2" Duct	Black	100

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

# Routing, Protection and Insulation

## Wiring Duct

### Duct Tools and Accessories

#### Bench Mounted Wiring Duct Cutting Tool

The HellermannTyton bench mounted wiring duct cutting tool is used to accurately measure and cut all HellermannTyton slotted and high density slotted wiring duct, solid dividers and covers.

#### Features and Benefits

- Hand lever is ergonomically designed to reduce user fatigue.
- Measuring guide incorporates both imperial and metric values which eliminates the need for secondary measurement devices.
- Long lasting, hardened blade produces burr-free edges and improves productivity by eliminating the need for filing the edges after cutting.
- Includes replacement blade and safety guide to ensure longevity, safety and proper use of the tool (replacements for both can also be purchased separately).



PART NO.	TYPE	Pkg. Qty.
904-00295	Wiring Duct Cutting Tool	1
904-00296	Wiring Duct Cutting Tool Replacement Blade	1
904-00297	Wiring Duct Safety Guide	1

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

### Duct Tools and Accessories

#### Duct Notching Tool

HellermannTyton's duct notching tool is designed for use with HellermannTyton's slotted wall and slotted high density Pro-Duct wiring duct. This hand held tool features plastic grips for easy handling and allows users to notch a duct sidewall section down to the very base for finger and sidewall removal.

#### Features and Benefits

- Plastic grips for easy tool handling.



PART NO.	TYPE	Description	Color	Pkg. Qty.
TDNT	TDNT	Wiring Duct Notching Tool	Red	1

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

### Duct Tools and Accessories

#### Panel Rivets and Tools

HellermannTyton panel rivets are one piece drive rivets that provide a fast, economic means of affixing wiring duct. The rivet is inserted into a 3/16" pre-punched hole and the pin is driven into the base, thereby expanding the rivet legs and locking the duct and sub-panel in place. The panel thickness (including the duct thickness) should be a maximum of 3/16". A panel rivet tool is also available for quick and easy installation of the drive rivets.

#### Features and Benefits

- Panel rivets are made with nylon material to hold duct securely to the panel without corroding, ensuring longevity.
- Panel rivets can be easily inserted with use of a specially designed, long shafted panel rivet tool.
- Ergonomic design of the tool ensures effortless use when inserting rivets into deep channels or locations difficult to access.



<b>MATERIAL</b>	Polyamide 6.6 (PA66)
<b>Flammability</b>	UL 94 HB
<b>Operating Temperature</b>	-40°F to +176°F (-40°C to +80°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
PR1M4	PR1	Panel Rivets	Natural	1000
PRT1	PRT1	Panel Rivet Tool	Yellow	1

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

### Duct Tools and Accessories

#### Corner Strips and Straight Connectors

HellermannTyton's Wiring Duct Connectors include corner strips and straight connectors. Corner strips are used for a rounded and smoother transition between sections of wiring duct meeting at a right angle whereas straight connectors join straight duct runs to cover and protect wires. Straight connectors are supplied in 6 foot lengths, can be used with all sizes of duct, and can be cut to fit duct sidewall heights.

#### Features and Benefits

- Easily cut to size for the appropriate duct size.
- Provides a smooth transition between sections of duct.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	Self-Extinguishing
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
181-00001	CSG	Wiring Duct Corner Strip Connector	Gray	120 ft
181-00002	CSW	Wiring Duct Corner Strip Connector	White	120 ft
181-00003	SCG	Wiring Duct Straight Connector	Gray	120 ft
181-00004	SCW	Wiring Duct Straight Connector	White	120 ft

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

### Low Voltage Raceway Channels

#### One Piece Surface Raceway

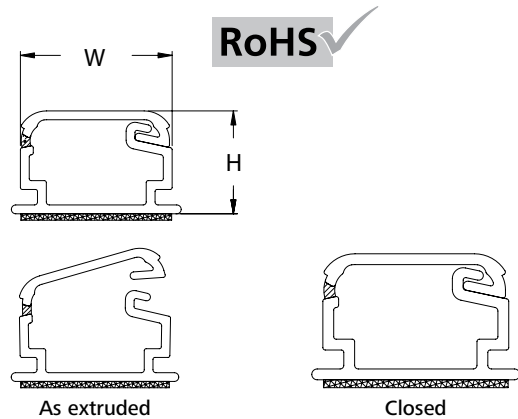
HellermannTyton surface raceway systems are the ideal solution for routing communication and power cables. No need to break into existing walls - raceway systems are designed to route cable along wall surfaces. Made of a PVC material, components are durable and affordable; and the one-piece construction and adhesive tape backing make positioning and mounting easy. HellermannTyton offers a low voltage TSR system and a power rated TSRP system that are available in three different diameters to accommodate different cable and wire bundle and conduit sizes. Both systems include a complete line of fittings and junction boxes that allow for clean and professional installations.



#### Features and Benefits

- Tamper resistant covers with hidden latch provide security while allowing quick entry for cable maintenance.
- PVC construction is lightweight, durable and more affordable than metallic raceway systems.
- Flexible hinge is designed to reduce stress cracking and discoloration from repeated opening and closing.
- Foam tape backing with rubber based adhesive conforms to any flat surface to assist with temporary positioning and mounting.
- Systems and fittings are available in white, office white and ivory to coordinate with a variety of décor.
- Fittings incorporate a minimum 1" bend radius to meet TIA/EIA 568-B and 569-A standards.

<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Color	Description	Length (L) ft. (m)	Width (W) in. (mm)	Height (H) in. (mm)	Pkg. Qty.
TSR11-8A	TSR1-8A	Ivory	3/4" One Piece Surface Raceway	8.0 (2.4)	0.8 (19.1)	0.5 (12.7)	160 ft
TSR1FW-8A		Office White	3/4" One Piece Surface Raceway	8.0 (2.4)	0.8 (19.1)	0.5 (12.7)	160 ft
TSR1W-8A		White	3/4" One Piece Surface Raceway	8.0 (2.4)	0.8 (19.1)	0.5 (12.7)	160 ft
TSR11-6A	TSR1-6A	Ivory	3/4" One Piece Surface Raceway	6.0 (1.8)	0.8 (19.1)	0.5 (12.7)	120 ft
TSR1FW-6A		Office White	3/4" One Piece Surface Raceway	6.0 (1.8)	0.8 (19.1)	0.5 (12.7)	120 ft
TSR1W-6A		White	3/4" One Piece Surface Raceway	6.0 (1.8)	0.8 (19.1)	0.5 (12.7)	120 ft
TSR21-8A	TSR2-8A	Ivory	1-1/4" One Piece Surface Raceway	8.0 (2.4)	1.3 (31.8)	0.8 (19.1)	160 ft
TSR2FW-8A		Office White	1-1/4" One Piece Surface Raceway	8.0 (2.4)	1.3 (31.8)	0.8 (19.1)	160 ft
TSR2W-8A		White	1-1/4" One Piece Surface Raceway	8.0 (2.4)	1.3 (31.8)	0.8 (19.1)	160 ft

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. For wire fill capacities, see appendix.

# Routing, Protection and Insulation

## Surface Raceway

### Low Voltage Raceway Channels

#### One Piece Surface Raceway

PART NO.	TYPE	Color	Description	Length (L) ft. (m)	Width (W) in. (mm)	Height (H) in. (mm)	Pkg. Qty.
TSR2I-6A	TSR2-6A	Ivory	1-1/4" One Piece Surface Raceway	6.0 (1.8)	1.3 (31.8)	0.8 (19.1)	120 ft
TSR2FW-6A		Office White	1-1/4" One Piece Surface Raceway	6.0 (1.8)	1.3 (31.8)	0.8 (19.1)	120 ft
TSR2W-6A		White	1-1/4" One Piece Surface Raceway	6.0 (1.8)	1.3 (31.8)	0.8 (19.1)	120 ft
TSR3I-8A	TSR3-8A	Ivory	1-3/4" One Piece Surface Raceway	8.0 (2.4)	1.8 (44.5)	1.0 (25.4)	160 ft
TSR3FW-8A		Office White	1-3/4" One Piece Surface Raceway	8.0 (2.4)	1.8 (44.5)	1.0 (25.4)	160 ft
TSR3W-8A		White	1-3/4" One Piece Surface Raceway	8.0 (2.4)	1.8 (44.5)	1.0 (25.4)	160 ft
TSR3I-6A	TSR3-6A	Ivory	1-3/4" One Piece Surface Raceway	6.0 (1.8)	1.8 (44.5)	1.0 (25.4)	120 ft
TSR3FW-6A		Office White	1-3/4" One Piece Surface Raceway	6.0 (1.8)	1.8 (44.5)	1.0 (25.4)	120 ft
TSR3W-6A		White	1-3/4" One Piece Surface Raceway	6.0 (1.8)	1.8 (44.5)	1.0 (25.4)	120 ft

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. For wire fill capacities, see appendix.

### Low Voltage Raceway Fittings and Junction Boxes

#### Ceiling Drops

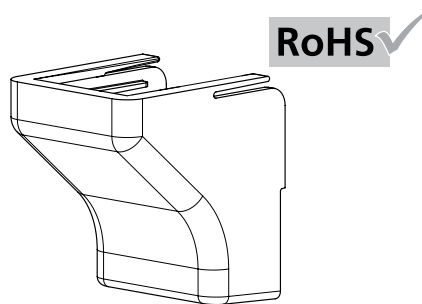
HellermannTyton surface raceway systems are the ideal solution for routing communication and power cables. No need to break into existing walls - raceway systems are designed to route cable along wall surfaces. Made of a PVC material, components are durable and affordable; and the one-piece construction and adhesive tape backing make positioning and mounting easy. HellermannTyton offers a low voltage TSR system and a power rated TSRP system that are available in three different diameters to accommodate different cable and wire bundle and conduit sizes. Both systems include a complete line of fittings and junction boxes that allow for clean and professional installations. TSR surface raceway systems can be used to route a variety of communication cable, including high speed UTP and fiber optic cable.

#### Features and Benefits

- Tamper resistant covers with hidden latch provide security while allowing quick entry for cable maintenance.
- PVC construction is lightweight, durable and more affordable than metallic raceway systems.
- Flexible hinge is designed to reduce stress cracking and discoloration from repeated opening and closing.
- Systems and fittings are available in white, office white and ivory to coordinate with a variety of décor.
- Fittings incorporate a minimum 1" bend radius to meet TIA/EIA 568-B and 569-A standards.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
TSR1I-50	TSR1-50	Ceiling Drop, 3/4"	Ivory	1
TSR1FW-50		Ceiling Drop, 3/4"	Office White	1
TSR1W-50		Ceiling Drop, 3/4"	White	1
TSR2I-50	TSR2-50	Ceiling Drop, 1-1/4"	Ivory	1
TSR2FW-50		Ceiling Drop, 1-1/4"	Office White	1
TSR2W-50		Ceiling Drop, 1-1/4"	White	1
TSR3I-50	TSR3-50	Ceiling Drop, 1-3/4"	Ivory	1
TSR3FW-50		Ceiling Drop, 1-3/4"	Office White	1
TSR3W-50		Ceiling Drop, 1-3/4"	White	1

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

# Routing, Protection and Insulation

## Surface Raceway

### Low Voltage Raceway Fittings and Junction Boxes

#### End Caps

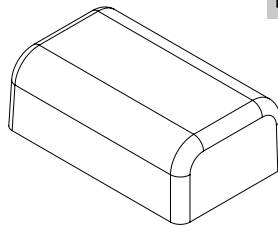
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#### Features and Benefits

- Tamper resistant covers with hidden latch provide security while allowing quick entry for cable maintenance.
- PVC construction is lightweight, durable and more affordable than metallic raceway systems.
- Flexible hinge is designed to reduce stress cracking and discoloration from repeated opening and closing.
- Systems and fittings are available in white, office white and ivory to coordinate with a variety of décor.
- Fittings incorporate a minimum 1" bend radius to meet TIA/EIA 568-B and 569-A standards.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
TSR1I-36	TSR1-36	End Cap, 3/4"	Ivory	1
TSR1FW-36		End Cap, 3/4"	Office White	1
TSR1W-36		End Cap, 3/4"	White	1
TSR2I-36	TSR2-36	End Cap, 1-1/4"	Ivory	1
TSR2FW-36		End Cap, 1-1/4"	Office White	1
TSR2W-36		End Cap, 1-1/4"	White	1
TSR3I-36	TSR3-36	End Cap, 1-3/4"	Ivory	1
TSR3FW-36		End Cap, 1-3/4"	Office White	1
TSR3W-36		End Cap, 1-3/4"	White	1

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



### Low Voltage Raceway Fittings and Junction Boxes

#### Internal Corner Covers

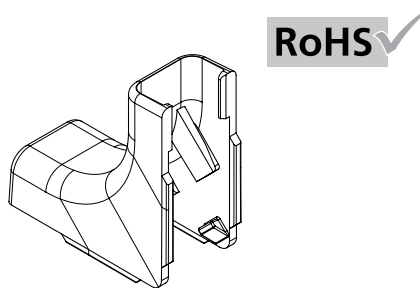
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#### Features and Benefits

- Tamper resistant covers with hidden latch provide security while allowing quick entry for cable maintenance.
- PVC construction is lightweight, durable and more affordable than metallic raceway systems.
- Flexible hinge is designed to reduce stress cracking and discoloration from repeated opening and closing.
- Systems and fittings are available in white, office white and ivory to coordinate with a variety of décor.
- Fittings incorporate a minimum 1" bend radius to meet TIA/EIA 568-B and 569-A standards.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
TSR1I-33-1	TSR1-33-1	Internal Corner Cover, 3/4", 1" Bend Radius	Ivory	1
TSR1FW-33-1		Internal Corner Cover, 3/4", 1" Bend Radius	Office White	1
TSR1W-33-1		Internal Corner Cover, 3/4", 1" Bend Radius	White	1
TSR2I-33-1	TSR2-33-1	Internal Corner Cover, 1-1/4", 1" Bend Radius	Ivory	1
TSR2FW-33-1		Internal Corner Cover, 1-1/4", 1" Bend Radius	Office White	1
TSR2W-33-1		Internal Corner Cover, 1-1/4", 1" Bend Radius	White	1
TSR3I-33-1	TSR3-33-1	Internal Corner Cover, 1-3/4", 1" Bend Radius	Ivory	1
TSR3FW-33-1		Internal Corner Cover, 1-3/4", 1" Bend Radius	Office White	1
TSR3W-33-1		Internal Corner Cover, 1-3/4", 1" Bend Radius	White	1

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

# Routing, Protection and Insulation

## Surface Raceway

### Low Voltage Raceway Fittings and Junction Boxes

#### External Corner Covers

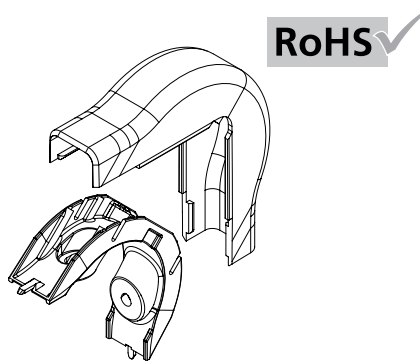
HellermannTyton surface raceway systems are the ideal solution for routing communication and power cables. No need to break into existing walls - raceway systems are designed to route cable along wall surfaces. Made of a PVC material, components are durable and affordable; and the one-piece construction and adhesive tape backing make positioning and mounting easy. HellermannTyton offers a low voltage TSR system and a power rated TSRP system that are available in three different diameters to accommodate different cable and wire bundle and conduit sizes. Both systems include a complete line of fittings and junction boxes that allow for clean and professional installations. TSR surface raceway systems can be used to route a variety of communication cable, including high speed UTP and fiber optic cable.

#### Features and Benefits

- Tamper resistant covers with hidden latch provide security while allowing quick entry for cable maintenance.
- PVC construction is lightweight, durable and more affordable than metallic raceway systems.
- Flexible hinge is designed to reduce stress cracking and discoloration from repeated opening and closing.
- Systems and fittings are available in white, office white and ivory to coordinate with a variety of décor.
- Fittings incorporate a minimum 1" bend radius to meet TIA/EIA 568-B and 569-A standards.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
TSR1I-29-1	TSR1-29-1	External Corner Cover, 3/4", 1" Bend Radius	Ivory	1
TSR1FW-29-1		External Corner Cover, 3/4", 1" Bend Radius	Office White	1
TSR1W-29-1		External Corner Cover, 3/4", 1" Bend Radius	White	1
TSR2I-29-1	TSR2-29-1	External Corner Cover, 1-1/4", 1" Bend Radius	Ivory	1
TSR2FW-29-1		External Corner Cover, 1-1/4", 1" Bend Radius	Office White	1
TSR2W-29-1		External Corner Cover, 1-1/4", 1" Bend Radius	White	1
TSR3I-29-1	TSR3-29-1	External Corner Cover, 1-3/4", 1" Bend Radius	Ivory	1
TSR3FW-29-1		External Corner Cover, 1-3/4", 1" Bend Radius	Office White	1
TSR3W-29-1		External Corner Cover, 1-3/4", 1" Bend Radius	White	1

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

### Low Voltage Raceway Fittings and Junction Boxes

#### Elbow Covers

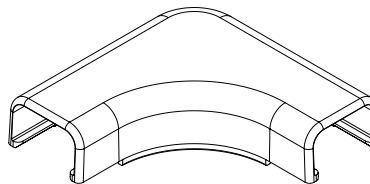
HellermannTyton surface raceway systems are the ideal solution for routing communication and power cables. No need to break into existing walls - raceway systems are designed to route cable along wall surfaces. Made of a PVC material, components are durable and affordable; and the one-piece construction and adhesive tape backing make positioning and mounting easy. HellermannTyton offers a low voltage TSR system and a power rated TSRP system that are available in three different diameters to accommodate different cable and wire bundle and conduit sizes. Both systems include a complete line of fittings and junction boxes that allow for clean and professional installations. TSR surface raceway systems can be used to route a variety of communication cable, including high speed UTP and fiber optic cable.

#### Features and Benefits

- Tamper resistant covers with hidden latch provide security while allowing quick entry for cable maintenance.
- PVC construction is lightweight, durable and more affordable than metallic raceway systems.
- Flexible hinge is designed to reduce stress cracking and discoloration from repeated opening and closing.
- Systems and fittings are available in white, office white and ivory to coordinate with a variety of décor.
- Fittings incorporate a minimum 1" bend radius to meet TIA/EIA 568-B and 569-A standards.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
TSR1I-25-1	TSR1-25-1	Elbow Cover, 3/4", 1" Bend Radius	Ivory	1
TSR1FW-25-1		Elbow Cover, 3/4", 1" Bend Radius	Office White	1
TSR1W-25-1		Elbow Cover, 3/4", 1" Bend Radius	White	1
TSR2I-25-1	TSR2-25-1	Elbow Cover, 1-1/4", 1" Bend Radius	Ivory	1
TSR2FW-25-1		Elbow Cover, 1-1/4", 1" Bend Radius	Office White	1
TSR2W-25-1		Elbow Cover, 1-1/4", 1" Bend Radius	White	1
TSR3I-25-1	TSR3-25-1	Elbow Cover, 1-3/4", 1" Bend Radius	Ivory	1
TSR3FW-25-1		Elbow Cover, 1-3/4", 1" Bend Radius	Office White	1
TSR3W-25-1		Elbow Cover, 1-3/4", 1" Bend Radius	White	1

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

# Routing, Protection and Insulation

## Surface Raceway

### Low Voltage Raceway Fittings and Junction Boxes

#### Tee Covers

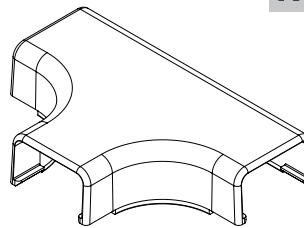
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#### Features and Benefits

- Tamper resistant covers with hidden latch provide security while allowing quick entry for cable maintenance.
- PVC construction is lightweight, durable and more affordable than metallic raceway systems.
- Flexible hinge is designed to reduce stress cracking and discoloration from repeated opening and closing.
- Systems and fittings are available in white, office white and ivory to coordinate with a variety of décor.
- Fittings incorporate a minimum 1" bend radius to meet TIA/EIA 568-B and 569-A standards.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
TSR1I-21-1	TSR1-21-1	Tee Cover, 3/4", 1" Bend Radius	Ivory	1
TSR1FW-21-1		Tee Cover, 3/4", 1" Bend Radius	Office White	1
TSR1W-21-1		Tee Cover, 3/4", 1" Bend Radius	White	1
TSR2I-21-1	TSR2-21-1	Tee Cover, 1-1/4", 1" Bend Radius	Ivory	1
TSR2FW-21-1		Tee Cover, 1-1/4", 1" Bend Radius	Office White	1
TSR2W-21-1		Tee Cover, 1-1/4", 1" Bend Radius	White	1
TSR3I-21-1	TSR3-21-1	Tee Cover, 1-3/4", 1" Bend Radius	Ivory	1
TSR3FW-21-1		Tee Cover, 1-3/4", 1" Bend Radius	Office White	1
TSR3W-21-1		Tee Cover, 1-3/4", 1" Bend Radius	White	1

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

### Low Voltage Raceway Fittings and Junction Boxes

#### Splice Covers

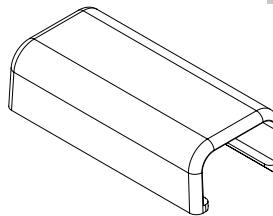
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#### Features and Benefits

- Tamper resistant covers with hidden latch provide security while allowing quick entry for cable maintenance.
- PVC construction is lightweight, durable and more affordable than metallic raceway systems.
- Flexible hinge is designed to reduce stress cracking and discoloration from repeated opening and closing.
- Systems and fittings are available in white, office white and ivory to coordinate with a variety of décor.
- Fittings incorporate a minimum 1" bend radius to meet TIA/EIA 568-B and 569-A standards.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
TSR1I-14	TSR1-14	Splice Cover, 3/4"	Ivory	1
TSR1FW-14		Splice Cover, 3/4"	Office White	1
TSR1W-14		Splice Cover, 3/4"	White	1
TSR2I-14	TSR2-14	Splice Cover, 1-1/4"	Ivory	1
TSR2FW-14		Splice Cover, 1-1/4"	Office White	1
TSR2W-14		Splice Cover, 1-1/4"	White	1
TSR3I-14	TSR3-14	Splice Cover, 1-3/4"	Ivory	1
TSR3FW-14		Splice Cover, 1-3/4"	Office White	1
TSR3W-14		Splice Cover, 1-3/4"	White	1

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

# Routing, Protection and Insulation

## Surface Raceway

### Low Voltage Raceway Fittings and Junction Boxes

#### Reducers

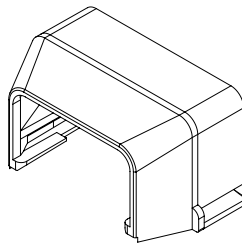
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#### Features and Benefits

- Tamper resistant covers with hidden latch provide security while allowing quick entry for cable maintenance.
- PVC construction is lightweight, durable and more affordable than metallic raceway systems.
- Flexible hinge is designed to reduce stress cracking and discoloration from repeated opening and closing.
- Systems and fittings are available in white, office white and ivory to coordinate with a variety of décor.
- Fittings incorporate a minimum 1" bend radius to meet TIA/EIA 568-B and 569-A standards.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
TSR1I-12	TSR1-12	Reducer, 1-3/4" to 1-1/4" (TSR3 to TSR2)	Ivory	1
TSR1FW-12		Reducer, 1-3/4" to 1-1/4" (TSR3 to TSR2)	Office White	1
TSR1W-12		Reducer, 1-3/4" to 1-1/4" (TSR3 to TSR2)	White	1
TSR2I-12	TSR2-12	Reducer, 1-3/4" to 3/4" (TSR3 to TSR1)	Ivory	1
TSR2FW-12		Reducer, 1-3/4" to 3/4" (TSR3 to TSR1)	Office White	1
TSR2W-12		Reducer, 1-3/4" to 3/4" (TSR3 to TSR1)	White	1
TSR3I-12	TSR3-12	Reducer 1-1/4" to 3/4" (TSR2 to TSR1)	Ivory	1
TSR3FW-12		Reducer 1-1/4" to 3/4" (TSR2 to TSR1)	Office White	1
TSR3W-12		Reducer 1-1/4" to 3/4" (TSR2 to TSR1)	White	1

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

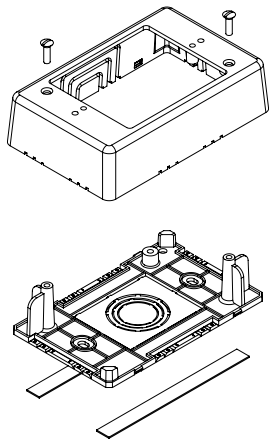
## Low Voltage Raceway Fittings and Junction Boxes

### Single Gang Junction Boxes

Offered in dual or single gang format, HellermannTyton's Low Voltage Junction Boxes are versatile enough for any network cabling application. Available in varying depths, these boxes are all equipped with concentric knockouts on all four sides for every TSR size of raceway to eliminate routing and installation inconvenience. All junction boxes come with adhesive strips on the back of the base and #6 screws to secure the box to the base.

### Features and Benefits

- Rubber based foam tape adhesive with high ultimate bond strength conforms to any surface.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Width (W) in. (mm)	Height (H) in. (mm)	Length (L) ft. (m)	Color	Pkg. Qty.
TSRI-JB1	TSR-JB1	Single Gang Junction Box	3.0 (76.2)	1.3 (31.8)	4.8 (120.7)	Ivory	1
TSRFW-JB1		Single Gang Junction Box	3.0 (76.2)	1.3 (31.8)	4.8 (120.7)	Office White	1
TSRW-JB1		Single Gang Junction Box	3.0 (76.2)	1.3 (31.8)	4.8 (120.7)	White	1
TSRI-JB2	TSR-JB2	Single Gang Junction Box	3.0 (76.2)	2.0 (50.8)	4.8 (120.7)	Ivory	1
TSRFW-JB2		Single Gang Junction Box	3.0 (76.2)	2.0 (50.8)	4.8 (120.7)	Office White	1
TSRW-JB2		Single Gang Junction Box	3.0 (76.2)	2.0 (50.8)	4.8 (120.7)	White	1
TSRI-JB3	TSR-JB3	Single Gang Junction Box	3.2 (81.3)	2.8 (70.4)	5.0 (125.7)	Ivory	1
TSRFW-JB3		Single Gang Junction Box	3.2 (81.3)	2.8 (70.4)	5.0 (125.7)	Office White	1
TSRW-JB3		Single Gang Junction Box	3.2 (81.3)	2.8 (70.4)	5.0 (125.7)	White	1

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
TSRX-JB2, TSRXJB3 and TSRX-JB2 are recommended for voice and data applications.

# Routing, Protection and Insulation

## Surface Raceway

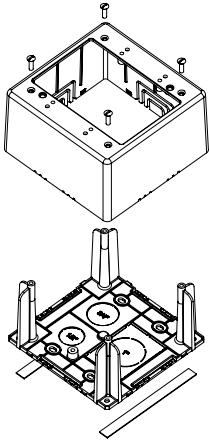
### Low Voltage Raceway Fittings and Junction Boxes

#### Dual Gang Junction Boxes

Offered in dual or single gang format, HellermannTyton's Low Voltage Junction Boxes are versatile enough for any network cabling application. Available in varying depths, these boxes are all equipped with concentric knockouts on all four sides for every TSR size of raceway to eliminate routing and installation inconvenience. All junction boxes come with adhesive strips on the back of the base and #6 screws to secure the box to the base.

#### Features and Benefits

- Rubber based foam tape adhesive with high ultimate bond strength conforms to any surface.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	Type	Description	Width (W) in. (mm)	Height (H) in. (mm)	Length (L) in. (mm)	Color	Qty. per Pkg.
<b>TSRI-JBD</b>	TSR-JBD	Dual Gang Junction Box	4.9 (124.7)	1.5 (38.1)	4.8 (122.7)	Ivory	1
<b>TSRFW-JBD</b>	TSR-JBD	Dual Gang Junction Box	4.9 (124.7)	1.5 (38.1)	4.8 (122.7)	Office White	1
<b>TSRW-JBD</b>	TSR-JBD	Dual Gang Junction Box	4.9 (124.7)	1.5 (38.1)	4.8 (122.7)	White	1
<b>TSRI-JBD2</b>	TSR-JBD2	Dual Gang Junction Box	5.0 (127.5)	2.8 (70.4)	4.9 (125.5)	Ivory	1
<b>TSRFW-JBD2</b>	TSR-JBD2	Dual Gang Junction Box	5.0 (127.5)	2.8 (70.4)	4.9 (125.5)	Office White	1
<b>TSRW-JBD2</b>	TSR-JBD2	Dual Gang Junction Box	5.0 (127.5)	2.8 (70.4)	4.9 (125.5)	White	1

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



### Power Rated Raceway Channels

#### TSRP - Power Rated Surface Raceway

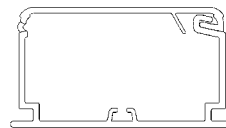
HellermannTyton's TSRP power surface raceway is a one piece, non-metallic, adhesive backed latching raceway designed to aesthetically organize and route either power or communications cables. Completely tamper resistant, the cover's self-locking, hidden positive latch permits quick reentry as well as providing a secure installation of power cables.

#### Features and Benefits

- Completely tamper resistant, the cover's self-locking, hidden positive latch permits quick re-entry as well as providing a secure installation of power cables.
- U.L. Listed for power up to 600 Volts, meeting UL5A and CSA 22.2 Number 62-93 Standards.
- Manufactured from UL 94V-0 rated PVC material.
- Fittings incorporate a minimum 1" bend radius per TIA/EIA 568-B and 569-A standards.
- Large base for greater adhesive surface.
- Rubber-based foam tape adhesive with high ultimate bond strength, which conforms to any surface.
- Flexible hinge allows the raceway to endure numerous openings without creating discoloration or stress cracking.
- Junction boxes can be used for electrical or data outlets.
- Designed to complement HellermannTyton's industry standard TSR low voltage raceway system.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Width (W) in. (mm)	Height (H) in. (mm)	Length (L) in. (mm)	Color	Pkg. Qty.
TSRP1I-6A*	TSRP1-6A	3/4" One Piece Surface Raceway	0.75 (19.1)	0.5 (12.7)	6.0 ft (1.8)	Ivory	120 ft
TSRP1FW-6A*		3/4" One Piece Surface Raceway	0.75 (19.1)	0.5 (12.7)	6.0 ft (1.8)	Office White	120 ft
TSRP1W-6A*		3/4" One Piece Surface Raceway	0.75 (19.1)	0.5 (12.7)	6.0 ft (1.8)	White	120 ft
TSRP1I-8A*	TSRP1-8A	3/4" One Piece Surface Raceway	0.75 (19.1)	0.5 (12.7)	8.0 ft (2.4)	Ivory	160 ft
TSRP1FW-8A*		3/4" One Piece Surface Raceway	0.75 (19.1)	0.5 (12.7)	8.0 ft (2.4)	Office White	160 ft
TSRP1W-8A*		3/4" One Piece Surface Raceway	0.75 (19.1)	0.5 (12.7)	8.0 ft (2.4)	White	160 ft
TSRP2I-6A*	TSRP2-6A	1-1/4" One Piece Surface Raceway	1.25 (31.8)	0.8 (19.1)	6.0 ft (1.8)	Ivory	120 ft
TSRP2FW-6A*		1-1/4" One Piece Surface Raceway	1.25 (31.8)	0.8 (19.1)	6.0 ft (1.8)	Office White	120 ft
TSRP2W-6A*		1-1/4" One Piece Surface Raceway	1.25 (31.8)	0.8 (19.1)	6.0 ft (1.8)	White	120 ft
TSRP2I-8A*	TSRP2-8A	1-1/4" One Piece Surface Raceway	1.25 (31.8)	0.8 (19.1)	8.0 ft (2.4)	Ivory	160 ft
TSRP2FW-8A*		1-1/4" One Piece Surface Raceway	1.25 (31.8)	0.8 (19.1)	8.0 ft (2.4)	Office White	160 ft
TSRP2W-8A*		1-1/4" One Piece Surface Raceway	1.25 (31.8)	0.8 (19.1)	8.0 ft (2.4)	White	160 ft
TSRP3I-6A*	TSRP3-6A	1-3/4" One Piece Surface Raceway	1.75 (44.5)	1.0 (25.4)	6.0 ft (1.8)	Ivory	120 ft
TSRP3FW-6A*		1-3/4" One Piece Surface Raceway	1.75 (44.5)	1.0 (25.4)	6.0 ft (1.8)	Office White	120 ft
TSRP3W-6A*		1-3/4" One Piece Surface Raceway	1.75 (44.5)	1.0 (25.4)	6.0 ft (1.8)	White	120 ft
TSRP3I-8A*	TSRP3-8A	1-3/4" One Piece Surface Raceway	1.75 (44.5)	1.0 (25.4)	8.0 ft (2.4)	Ivory	160 ft
TSRP3FW-8A*		1-3/4" One Piece Surface Raceway	1.75 (44.5)	1.0 (25.4)	8.0 ft (2.4)	Office White	160 ft
TSRP3W-8A*		1-3/4" One Piece Surface Raceway	1.75 (44.5)	1.0 (25.4)	8.0 ft (2.4)	White	160 ft

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

\*This product meets UL standards. Please see appendix for specific file numbers. For wire fill capacities, see appendix.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

# Routing, Protection and Insulation

## Surface Raceway

### Power Rated Raceway Fittings and Junction Boxes

#### TSRP - Ceiling Drops

HellermannTyton surface raceway systems are the ideal solution for routing communication and power cables. No need to break into existing walls - raceway systems are designed to route cable along wall surfaces. Made of a PVC material, components are durable and affordable; and the one piece construction and adhesive tape backing make positioning and mounting easy. HellermannTyton offers a low voltage TSR system and a power rated TSRP system that are available in three different diameters to accommodate different cable and wire bundle and conduit sizes. Both systems include a complete line of fittings and junction boxes that allow for clean and professional installations. TSRP surface raceway systems are designed to aesthetically organize and route either power or communications cables.

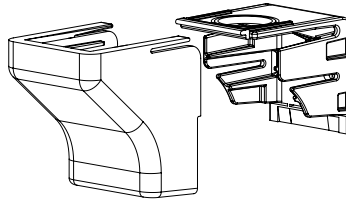
#### Features and Benefits

- Tamper resistant covers with hidden latch provide security while allowing quick entry for cable maintenance.
- PVC construction is lightweight, durable and more affordable than metallic raceway systems.
- Flexible hinge designed to reduce stress cracking and discoloration from repeated opening and closing.
- Systems and fittings are available in white, office white and ivory to coordinate with a variety of décor.
- Fittings incorporate a minimum 1" bend radius to meet TIA/EIA 568-B and 569-A standards.
- TSRP power rated surface raceway systems have an enhanced "channel and lug" mating design that provides a tighter, more secure fit between raceway lengths and fittings, enabling the system to be UL Listed for power up to 600 volts and meet UL5A and CSA 22.2.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)

**RoHS** ✓



PART NO.	TYPE	Description	Color	Pkg. Qty.
TSRP1I-50*	TSRP1-50	Ceiling Drop, 3/4"	Ivory	1
TSRP1FW-50*		Ceiling Drop, 3/4"	Office White	1
TSRP1W-50*		Ceiling Drop, 3/4"	White	1
TSRP2I-50*	TSRP2-50	Ceiling Drop, 1-1/4"	Ivory	1
TSRP2FW-50*		Ceiling Drop, 1-1/4"	Office White	1
TSRP2W-50*		Ceiling Drop, 1-1/4"	White	1
TSRP3I-50*	TSRP3-50	Ceiling Drop, 1-3/4"	Ivory	1
TSRP3FW-50*		Ceiling Drop, 1-3/4"	Office White	1
TSRP3W-50*		Ceiling Drop, 1-3/4"	White	1

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

\*This product meets UL standards. Please see appendix for specific file numbers.



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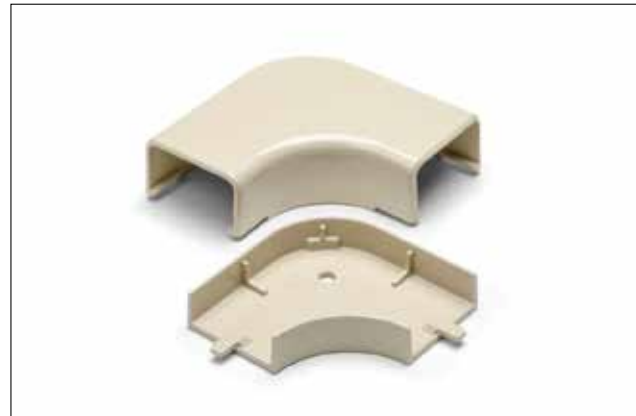
### Power Rated Raceway Fittings and Junction Boxes

#### TSRP - Elbow Covers

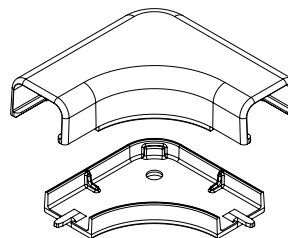
HellermannTyton surface raceway systems are the ideal solution for routing communication and power cables. No need to break into existing walls - raceway systems are designed to route cable along wall surfaces. Made of a PVC material, components are durable and affordable; and the one piece construction and adhesive tape backing make positioning and mounting easy. HellermannTyton offers a low voltage TSR system and a power rated TSRP system that are available in three different diameters to accommodate different cable and wire bundle and conduit sizes. Both systems include a complete line of fittings and junction boxes that allow for clean and professional installations. TSRP surface raceway systems are designed to aesthetically organize and route either power or communications cables.

#### Features and Benefits

- Tamper resistant covers with hidden latch provide security while allowing quick entry for cable maintenance.
- PVC construction is lightweight, durable and more affordable than metallic raceway systems.
- Flexible hinge designed to reduce stress cracking and discoloration from repeated opening and closing.
- Systems and fittings are available in white, office white and ivory to coordinate with a variety of décor.
- Fittings incorporate a minimum 1" bend radius to meet TIA/EIA 568-B and 569-A standards.
- TSRP power rated surface raceway systems have an enhanced "channel and lug" mating design that provides a tighter, more secure fit between raceway lengths and fittings, enabling the system to be UL Listed for power up to 600 volts and meet UL5A and CSA 22.2.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
TSRP1I-25-1*	TSRP1-25-1	Elbow Cover, 3/4"	Ivory	1
TSRP1FW-25-1*		Elbow Cover, 3/4"	Office White	1
TSRP1W-25-1*		Elbow Cover, 3/4"	White	1
TSRP2I-25-1*	TSRP2-25-1	Elbow Cover, 1-1/4"	Ivory	1
TSRP2FW-25-1*		Elbow Cover, 1-1/4"	Office White	1
TSRP2W-25-1*		Elbow Cover, 1-1/4"	White	1
TSRP3I-25-1*	TSRP3-25-1	Elbow Cover, 1-3/4"	Ivory	1
TSRP3FW-25-1*		Elbow Cover, 1-3/4"	Office White	1
TSRP3W-25-1*		Elbow Cover, 1-3/4"	White	1

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

\*This product meets UL standards. Please see appendix for specific file numbers.



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# Routing, Protection and Insulation

## Surface Raceway

### Power Rated Raceway Fittings and Junction Boxes

#### TSRP - End Caps

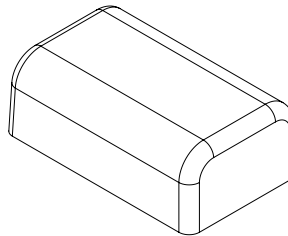
HellermannTyton surface raceway systems are the ideal solution for routing communication and power cables. No need to break into existing walls - raceway systems are designed to route cable along wall surfaces. Made of a PVC material, components are durable and affordable; and the one piece construction and adhesive tape backing make positioning and mounting easy. HellermannTyton offers a low voltage TSR system and a power rated TSRP system that are available in three different diameters to accommodate different cable and wire bundle and conduit sizes. Both systems include a complete line of fittings and junction boxes that allow for clean and professional installations. TSRP surface raceway systems are designed to aesthetically organize and route either power or communications cables.

#### Features and Benefits

- Tamper resistant covers with hidden latch provide security while allowing quick entry for cable maintenance.
- PVC construction is lightweight, durable and more affordable than metallic raceway systems.
- Flexible hinge designed to reduce stress cracking and discoloration from repeated opening and closing.
- Systems and fittings are available in white, office white and ivory to coordinate with a variety of décor.
- Fittings incorporate a minimum 1" bend radius to meet TIA/EIA 568-B and 569-A standards.
- TSRP power rated surface raceway systems have an enhanced "channel and lug" mating design that provides a tighter, more secure fit between raceway lengths and fittings, enabling the system to be UL Listed for power up to 600 volts and meet UL5A and CSA 22.2.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
TSRP1I-36*	TSRP1-36	End Cap, 3/4"	Ivory	1
TSRP1FW-36*		End Cap, 3/4"	Office White	1
TSRP1W-36*		End Cap, 3/4"	White	1
TSRP2I-36*	TSRP2-36	End Cap, 1-1/4"	Ivory	1
TSRP2FW-36*		End Cap, 1-1/4"	Office White	1
TSRP2W-36*		End Cap, 1-1/4"	White	1
TSRP3I-36*	TSRP3-36	End Cap, 1-3/4"	Ivory	1
TSRP3FW-36*		End Cap, 1-3/4"	Office White	1
TSRP3W-36*		End Cap, 1-3/4"	White	1

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### Power Rated Raceway Fittings and Junction Boxes

#### TSRP - Internal Corner Covers

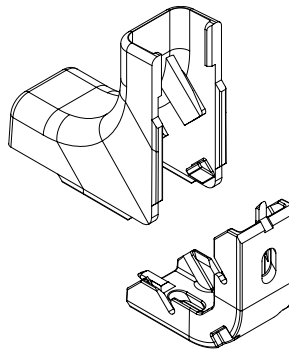
HellermannTyton surface raceway systems are the ideal solution for routing communication and power cables. No need to break into existing walls - raceway systems are designed to route cable along wall surfaces. Made of a PVC material, components are durable and affordable; and the one piece construction and adhesive tape backing make positioning and mounting easy. HellermannTyton offers a low voltage TSR system and a power rated TSRP system that are available in three different diameters to accommodate different cable and wire bundle and conduit sizes. Both systems include a complete line of fittings and junction boxes that allow for clean and professional installations. TSRP surface raceway systems are designed to aesthetically organize and route either power or communications cables.

#### Features and Benefits

- Tamper resistant covers with hidden latch provide security while allowing quick entry for cable maintenance.
- PVC construction is lightweight, durable and more affordable than metallic raceway systems.
- Flexible hinge designed to reduce stress cracking and discoloration from repeated opening and closing.
- Systems and fittings are available in white, office white and ivory to coordinate with a variety of décor.
- Fittings incorporate a minimum 1" bend radius to meet TIA/EIA 568-B and 569-A standards.
- TSRP power rated surface raceway systems have an enhanced "channel and lug" mating design that provides a tighter, more secure fit between raceway lengths and fittings, enabling the system to be UL Listed for power up to 600 volts and meet UL5A and CSA 22.2.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
TSRP1I-33-1*	TSRP1-33-1	Internal Corner Cover, 3/4"	Ivory	1
TSRP1FW-33-1*		Internal Corner Cover, 3/4"	Office White	1
TSRP1W-33-1*		Internal Corner Cover, 3/4"	White	1
TSRP2I-33-1*	TSRP2-33-1	Internal Corner Cover, 1-1/4"	Ivory	1
TSRP2FW-33-1*		Internal Corner Cover, 1-1/4"	Office White	1
TSRP2W-33-1*		Internal Corner Cover, 1-1/4"	White	1
TSRP3I-33-1*	TSRP3-33-1	Internal Corner Cover, 1-3/4"	Ivory	1
TSRP3FW-33-1*		Internal Corner Cover, 1-3/4"	Office White	1
TSRP3W-33-1*		Internal Corner Cover, 1-3/4"	White	1

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# Routing, Protection and Insulation

## Surface Raceway

### Power Rated Raceway Fittings and Junction Boxes

#### TSRP - External Corners and Corner Covers

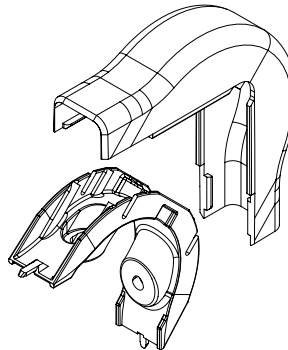
HellermannTyton surface raceway systems are the ideal solution for routing communication and power cables. No need to break into existing walls - raceway systems are designed to route cable along wall surfaces. Made of a PVC material, components are durable and affordable; and the one piece construction and adhesive tape backing make positioning and mounting easy. HellermannTyton offers a low voltage TSR system and a power rated TSRP system that are available in three different diameters to accommodate different cable and wire bundle and conduit sizes. Both systems include a complete line of fittings and junction boxes that allow for clean and professional installations. TSRP surface raceway systems are designed to aesthetically organize and route either power or communications cables.

#### Features and Benefits

- Tamper resistant covers with hidden latch provide security while allowing quick entry for cable maintenance.
- PVC construction is lightweight, durable and more affordable than metallic raceway systems.
- Flexible hinge designed to reduce stress cracking and discoloration from repeated opening and closing.
- Systems and fittings are available in white, office white and ivory to coordinate with a variety of décor.
- Fittings incorporate a minimum 1" bend radius to meet TIA/EIA 568-B and 569-A standards.
- TSRP power rated surface raceway systems have an enhanced "channel and lug" mating design that provides a tighter, more secure fit between raceway lengths and fittings, enabling the system to be UL Listed for power up to 600 volts and meet UL5A and CSA 22.2.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
TSRP1I-29-1*	TSRP1-29-1	External Corner, 3/4"	Ivory	1
TSRP1FW-29-1*		External Corner, 3/4"	Office White	1
TSRP1W-29-1*		External Corner, 3/4"	White	1
TSRP2I-29-1*	TSRP2-29-1	External Corner Cover, 1-1/4"	Ivory	1
TSRP2FW-29-1*		External Corner Cover, 1-1/4"	Office White	1
TSRP2W-29-1*		External Corner Cover, 1-1/4"	White	1
TSRP3I-29-1*	TSRP3-29-1	External Corner Cover, 1-3/4"	Ivory	1
TSRP3FW-29-1*		External Corner Cover, 1-3/4"	Office White	1
TSRP3W-29-1*		External Corner Cover, 1-3/4"	White	1

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

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### Power Rated Raceway Fittings and Junction Boxes

#### TSRP - Reducers

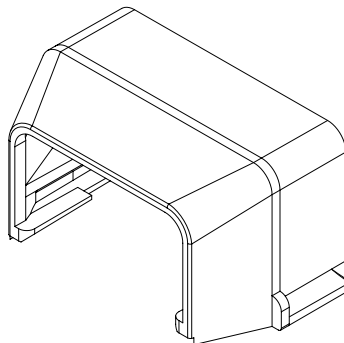
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#### Features and Benefits

- Tamper resistant covers with hidden latch provide security while allowing quick entry for cable maintenance.
- PVC construction is lightweight, durable and more affordable than metallic raceway systems.
- Flexible hinge designed to reduce stress cracking and discoloration from repeated opening and closing.
- Systems and fittings are available in white, office white and ivory to coordinate with a variety of décor.
- Fittings incorporate a minimum 1" bend radius to meet TIA/EIA 568-B and 569-A standards.
- TSRP power rated surface raceway systems have an enhanced "channel and lug" mating design that provides a tighter, more secure fit between raceway lengths and fittings, enabling the system to be UL Listed for power up to 600 volts and meet UL5A and CSA 22.2.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
TSRP1I-12*	TSRP1-12	Reducer, 1-3/4" to 1-1/4"	Ivory	1
TSRP1FW-12*		Reducer, 1-3/4" to 1-1/4"	Office White	1
TSRP1W-12*		Reducer, 1-3/4" to 1-1/4"	White	1
TSRP2I-12*	TSRP2-12	Reducer, 1-3/4" to 3/4"	Ivory	1
TSRP2FW-12*		Reducer, 1-3/4" to 3/4"	Office White	1
TSRP2W-12*		Reducer, 1-3/4" to 3/4"	White	1
TSRP3I-12*	TSRP3-12	Reducer 1-1/4" to 3/4"	Ivory	1
TSRP3FW-12*		Reducer 1-1/4" to 3/4"	Office White	1
TSRP3W-12*		Reducer 1-1/4" to 3/4"	White	1

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# Routing, Protection and Insulation

## Surface Raceway

### Power Rated Raceway Fittings and Junction Boxes

#### TSRP - Splice Covers

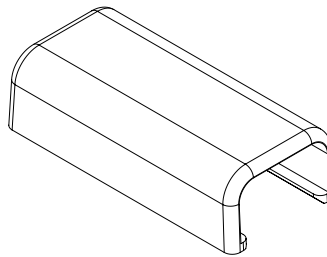
HellermannTyton surface raceway systems are the ideal solution for routing communication and power cables. No need to break into existing walls - raceway systems are designed to route cable along wall surfaces. Made of a PVC material, components are durable and affordable; and the one piece construction and adhesive tape backing make positioning and mounting easy. HellermannTyton offers a low voltage TSR system and a power rated TSRP system that are available in three different diameters to accommodate different cable and wire bundle and conduit sizes. Both systems include a complete line of fittings and junction boxes that allow for clean and professional installations. TSRP surface raceway systems are designed to aesthetically organize and route either power or communications cables.

#### Features and Benefits

- Tamper resistant covers with hidden latch provide security while allowing quick entry for cable maintenance.
- PVC construction is lightweight, durable and more affordable than metallic raceway systems.
- Flexible hinge designed to reduce stress cracking and discoloration from repeated opening and closing.
- Systems and fittings are available in white, office white and ivory to coordinate with a variety of décor.
- Fittings incorporate a minimum 1" bend radius to meet TIA/EIA 568-B and 569-A standards.
- TSRP power rated surface raceway systems have an enhanced "channel and lug" mating design that provides a tighter, more secure fit between raceway lengths and fittings, enabling the system to be UL Listed for power up to 600 volts and meet UL5A and CSA 22.2.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
TSRP1I-14*	TSRP1-14	Splice Cover, 3/4"	Ivory	1
TSRP1FW-14*		Splice Cover, 3/4"	Office White	1
TSRP1W-14*		Splice Cover, 3/4"	White	1
TSRP2I-14*	TSRP2-14	Splice Cover, 1-1/4"	Ivory	1
TSRP2FW-14*		Splice Cover, 1-1/4"	Office White	1
TSRP2W-14*		Splice Cover, 1-1/4"	White	1
TSRP3I-14*	TSRP3-14	Splice Cover, 1-3/4"	Ivory	1
TSRP3FW-14*		Splice Cover, 1-3/4"	Office White	1
TSRP3W-14*		Splice Cover, 1-3/4"	White	1

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### Power Rated Raceway Fittings and Junction Boxes

#### TSRP - Tee Covers

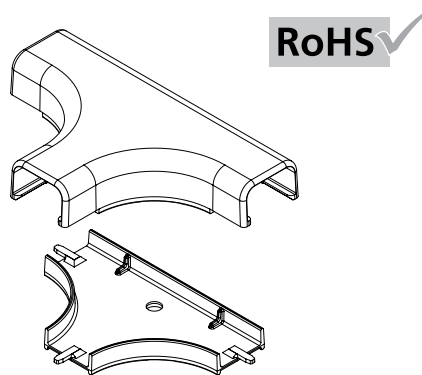
HellermannTyton surface raceway systems are the ideal solution for routing communication and power cables. No need to break into existing walls - raceway systems are designed to route cable along wall surfaces. Made of a PVC material, components are durable and affordable; and the one piece construction and adhesive tape backing make positioning and mounting easy. HellermannTyton offers a low voltage TSR system and a power rated TSRP system that are available in three different diameters to accommodate different cable and wire bundle and conduit sizes. Both systems include a complete line of fittings and junction boxes that allow for clean and professional installations. TSRP surface raceway systems are designed to aesthetically organize and route either power or communications cables.

#### Features and Benefits

- Tamper resistant covers with hidden latch provide security while allowing quick entry for cable maintenance.
- PVC construction is lightweight, durable and more affordable than metallic raceway systems.
- Flexible hinge designed to reduce stress cracking and discoloration from repeated opening and closing.
- Systems and fittings are available in white, office white and ivory to coordinate with a variety of décor.
- Fittings incorporate a minimum 1" bend radius to meet TIA/EIA 568-B and 569-A standards.
- TSRP power rated surface raceway systems have an enhanced "channel and lug" mating design that provides a tighter, more secure fit between raceway lengths and fittings, enabling the system to be UL Listed for power up to 600 volts and meet UL5A and CSA 22.2.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
TSRP1I-21-1*	TSRP1-21-1	Tee Cover, 3/4"	Ivory	1
TSRP1FW-21-1*		Tee Cover, 3/4"	Office White	1
TSRP1W-21-1*		Tee Cover, 3/4"	White	1
TSRP2I-21-1*	TSRP2-21-1	Tee Cover, 1-1/4"	Ivory	1
TSRP2FW-21-1*		Tee Cover, 1-1/4"	Office White	1
TSRP2W-21-1*		Tee Cover, 1-1/4"	White	1
TSRP3I-21-1*	TSRP3-21-1	Tee Cover, 1-3/4"	Ivory	1
TSRP3FW-21-1*		Tee Cover, 1-3/4"	Office White	1
TSRP3W-21-1*		Tee Cover, 1-3/4"	White	1

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# Routing, Protection and Insulation

## Surface Raceway

### Power Rated Raceway Fittings and Junction Boxes

#### TSRP - Round Junction Boxes

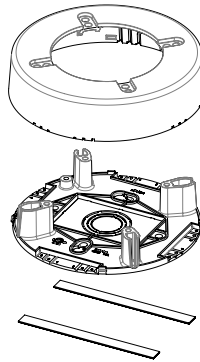
Designed for mounting of low and line voltage fixtures such as hanging lights, smoke detectors, carbon monoxide detectors and security cameras, the TSRP round junction box complements HellermannTyton's full line of power rated TSRP and low voltage TSR raceway systems. The TSRP round junction box is constructed of a durable PVC material and is available in white, office white and ivory to coordinate with all HellermannTyton surface mount raceway systems.

#### Features and Benefits

- Pre-scored knockouts on the base and all four sides remove easily to accommodate 0.5", 0.75" or 1.0" diameter conduit and all HellermannTyton TSR/TSRP raceway sizes.
- Simple two piece design is easy to install and includes foam tape backing with rubber based adhesive to assist with temporary positioning and mounting.
- Accommodates a variety of alarm/detector and fixture makes and models.
- PVC construction is lightweight and durable.
- Covers are designed to overlap raceway mating points to hide uneven cuts.
- Fittings incorporate a minimum 1" bend radius per TIA/EIA 568-B and 569-A standards.
- UL 5A Listed to 600V and CSA Certified to 300V (not to exceed 10 lbs. per UL and 5 lbs. per CSA.)



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



**RoHS** ✓

PART NO.	TYPE	Description	Color	Pkg. Qty.
TSRPI-RB*	TSRPI-RB	Round Junction Box, 1-1/4" Deep	Ivory	1
TSRPFW-RB*	TSRPFW-RB	Round Junction Box, 1-1/4" Deep	Office White	1
TSRPW-RB*	TSRPW-RB	Round Junction Box, 1-1/4" Deep	White	1

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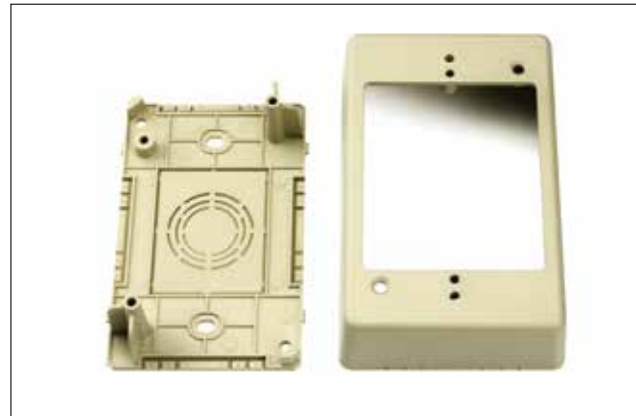
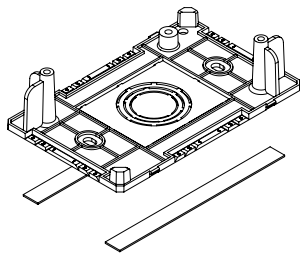
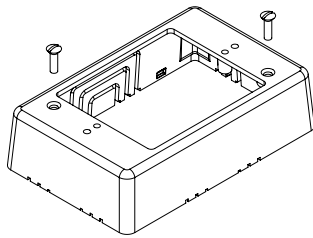
### Power Rated Raceway Fittings and Junction Boxes

#### TSRP - Single Gang Junction Boxes

Offered in a dual or single gang format, HellermannTyton's power-rated junction boxes are versatile enough for any network cabling application. Available in varying depths, these boxes are all equipped with concentric knockouts on all four sides for every TSRP size of raceway, which eliminates routing and installation inconvenience. All five styles of junction boxes come with adhesive strips for the back of the base, and also #6 screws to secure the box to the base.

#### Features and Benefits

- TSRP rated boxes can be used for electrical or data outlets.
- Rubber based foam tape adhesive with high ultimate bond strength, which conforms to any surface.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Width (W) in. (mm)	Height (H) in. (mm)	Length (L) in. (mm)	Color	Pkg. Qty.
TSRPI-JB1*	TSRP-JB1	Single Gang Junction Box	3.00 (76.2)	1.25 (31.8)	4.75 (120.7)	Ivory	1
TSRPFW-JB1*		Single Gang Junction Box	3.00 (76.2)	1.25 (31.8)	4.75 (120.7)	Office White	1
TSRPW-JB1*		Single Gang Junction Box	3.00 (76.2)	1.25 (31.8)	4.75 (120.7)	White	1
TSRPI-JB2*	TSRP-JB2	Single Gang Junction Box	3.00 (76.2)	2.00 (50.8)	4.75 (120.7)	Ivory	1
TSRPFW-JB2*		Single Gang Junction Box	3.00 (76.2)	2.00 (50.8)	4.75 (120.7)	Office White	1
TSRPW-JB2*		Single Gang Junction Box	3.00 (76.2)	2.00 (50.8)	4.75 (120.7)	White	1
TSRPI-JB3*	TSRP-JB3	Single Gang Junction Box	3.20 (81.3)	2.77 (70.4)	4.95 (125.7)	Ivory	1
TSRPFW-JB3*		Single Gang Junction Box	3.20 (81.3)	2.77 (70.4)	4.95 (125.7)	Office White	1
TSRPW-JB3*		Single Gang Junction Box	3.20 (81.3)	2.77 (70.4)	4.95 (125.7)	White	1

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# Routing, Protection and Insulation

## Surface Raceway

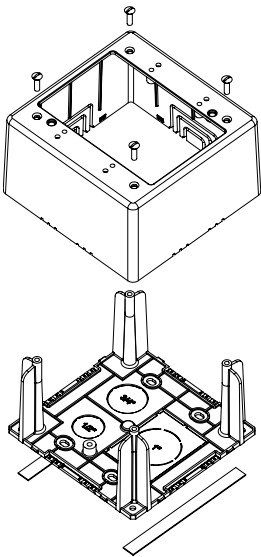
### Power Rated Raceway Fittings and Junction Boxes

#### TSRP - Dual Gang Junction Boxes

Offered in a dual or single gang format, HellermannTyton's power-rated junction boxes are versatile enough for any network cabling application. Available in varying depths, these boxes are all equipped with concentric knockouts on all four sides for every TSRP size of raceway to eliminate routing and installation inconvenience. All junction boxes come with adhesive strips on the back of the base and #6 screws to secure the box to the base.

#### Features and Benefits

- Junction boxes can be used for electrical or data outlets.
- Rubber-based foam tape adhesive with high ultimate bond strength, which conforms to any surface.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Width (W) in. (mm)	Height (H) in. (mm)	Length (L) in. (mm)	Color	Pkg. Qty.
TSRPI-JBD*	TSRP-JBD	Dual Gang Junction Box	4.91 (124.7)	1.50 (38.1)	4.83 (122.7)	Ivory	1
TSRPFW-JBD*		Dual Gang Junction Box	4.91 (124.7)	1.50 (38.1)	4.83 (122.7)	Office White	1
TSRPW-JBD*		Dual Gang Junction Box	4.91 (124.7)	1.50 (38.1)	4.83 (122.7)	White	1
TSRPI-JBD2*	TSRP-JBD2	Dual Gang Junction Box	5.02 (127.5)	2.77 (70.4)	4.94 (125.5)	Ivory	1
TSRPFW-JBD2*		Dual Gang Junction Box	5.02 (127.5)	2.77 (70.4)	4.94 (125.5)	Office White	1
TSRPW-JBD2*		Dual Gang Junction Box	5.02 (127.5)	2.77 (70.4)	4.94 (125.5)	White	1

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
\*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

### Multi-Channel Raceway

#### Raceway Base and Covers

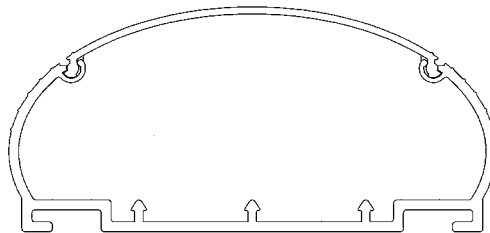
The InfoStream® multi-channel surface raceway system is designed to organize, protect and route multiple types of cable and wire along interior walls. Dividers snap inside raceway to create up to four channels to separate and route communication and power cables. Manufactured from lightweight PVC material, InfoStream multi-channel raceway components are UL5A listed and CSA 22.2 rated for up to 600 volts.

#### Features and Benefits

- Raceway and fittings are manufactured from a UL94 V0 rated material to insure compliance with codes.
- All fittings have been designed to maintain the required 1" minimum bend radius to meet TIA/EIA-568-B and 569-A standard.
- Raceway and fittings are UL Listed to 600 Volts to meet new UL5A and CSA 22.2 No. 62-93 standards.
- Patented hinged cover speeds installation time by allowing installer to partially mount cover prior to laying cables.
- Base is supplied with prepunched mounting slots every 8".
- Raceway base includes adhesive double sided tape for aid in mounting. Raceway must still be properly fastened to the wall per instructions.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Length (L) ft (m)	Carton Quantity
MCRI-B8*	MCR-B8	Base With Center Divider	Ivory	8.0 (2.4)	48 ft
MCRFW-B8*		Base With Center Divider	Office White	8.0 (2.4)	48 ft
MCRI-B10*	MCR-B10	Base With Center Divider	Ivory	10.0 (3.0)	60 ft
MCRFW-B10*		Base With Center Divider	Office White	10.0 (3.0)	60 ft
MCRI-BS8*	MCR-BS8	Base With Side Divider	Ivory	8.0 (2.4)	48 ft
MCRFW-BS8*		Base With Side Divider	Office White	8.0 (2.4)	48 ft
MCRI-BS10*	MCR-BS10	Base With Side Divider	Ivory	10.0 (3.0)	60 ft
MCRFW-BS10*		Base With Side Divider	Office White	10.0 (3.0)	60 ft
MCRI-C8*	MCR-C8	Cover	Ivory	8.0 (2.4)	48 ft
MCRFW-C8*		Cover	Office White	8.0 (2.4)	48 ft
MCRI-C10*	MCR-C10	Cover	Ivory	10.0 (3.0)	60 ft
MCRFW-C10*		Cover	Office White	10.0 (3.0)	60 ft

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 \*This product meets UL standards. Please see appendix for specific file numbers. For wire fill capacities, see appendix.



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# Routing, Protection and Insulation

## Surface Raceway

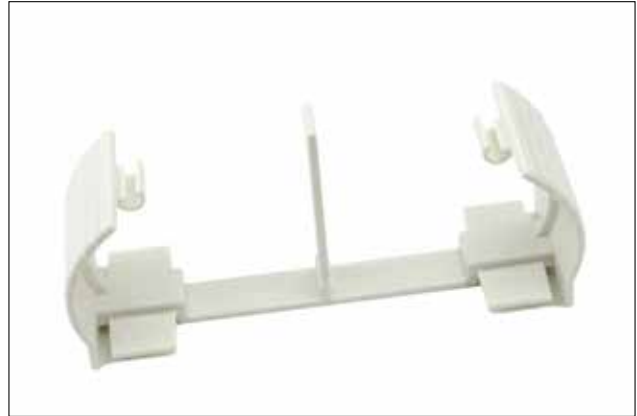
### Multi-Channel Raceway

#### Raceway Base Splice

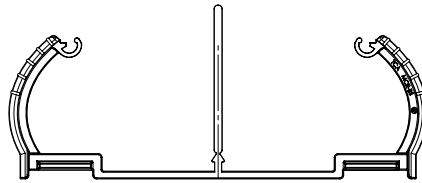
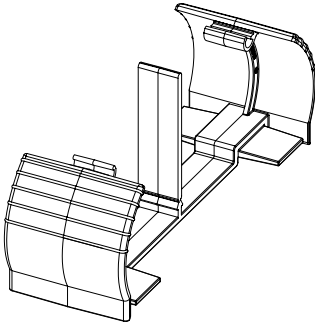
Base splice joins two sections of raceway base.

#### Features and Benefits

- Raceway and fittings are manufactured from a UL94 V0 rated material to insure compliance with codes.
- All fittings have been designed to maintain the required 1" minimum bend radius to meet TIA/EIA-568-B and 569-A standard.
- Raceway and fittings are UL Listed to 600 Volts to meet new UL5A and CSA 22.2 No. 62-93 standards.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
MCRI-BS*	MCR-BS	Base Splice	Ivory	10
MCRFW-BS*		Base Splice	Office White	10

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 \*This product meets UL standards. Please see appendix for specific file numbers.



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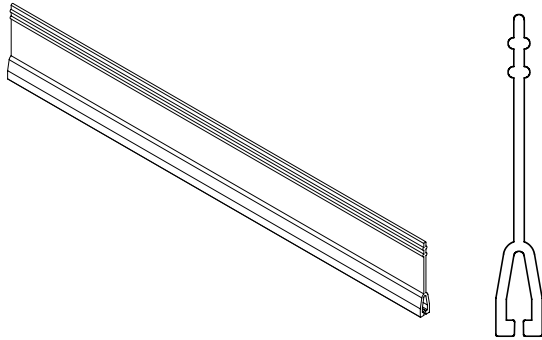
### Multi-Channel Raceway

#### Raceway Dividers

Dividers snap onto raceway base rails for proper power and data separation per UL/CSA.

#### Features and Benefits

- Raceway and fittings are manufactured from a UL94 V0 rated material to insure compliance with codes.
- All fittings have been designed to maintain the required 1" minimum bend radius to meet TIA/EIA-568-B and 569-A standard.
- Raceway and fittings are UL Listed to 600 Volts to meet new UL5A and CSA 22.2 No. 62-93 standards.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Length (L) ft (m)	Color	Pkg. Qty.
MCRI-CD8	MCR-CD8	Center Divider	8.0 (2.4)	Ivory	96 ft
MCRFW-CD8		Center Divider	8.0 (2.4)	Office White	96 ft
MCRI-CD10	MCR-CD10	Center Divider	10.0 (3.0)	Ivory	120 ft
MCRFW-CD10		Center Divider	10.0 (3.0)	Office White	120 ft
MCRW-SD8	MCR-SD8	Side Divider	8.0 (2.4)	White	48 ft
MCRW-SD10	MCR-SD10	Side Divider	10.0 (3.0)	White	60 ft

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

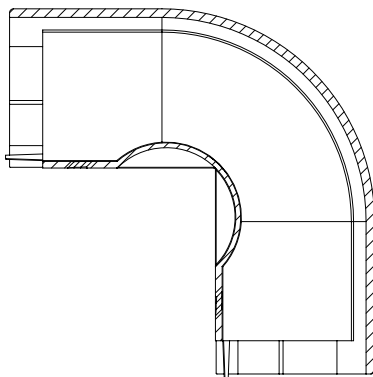
### Multi-Channel Raceway Fittings and Junction Boxes

#### External Elbow

External Elbow joins raceway at a 90 degree outside corner.

#### Features and Benefits

- Raceway and fittings are manufactured from a UL94 V0 rated material to insure compliance with codes.
- All fittings have been designed to maintain the required 1" minimum bend radius to meet TIA/EIA-568-B and 569-A standard.
- Raceway and fittings are UL Listed to 600 Volts to meet new UL5A and CSA 22.2 No. 62-93 standards.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
MCRI-EE*	MCR-EE	External Elbow	Ivory	1
MCRFW-EE*		External Elbow	Office White	1

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 \*This product meets UL standards. Please see appendix for specific file numbers.



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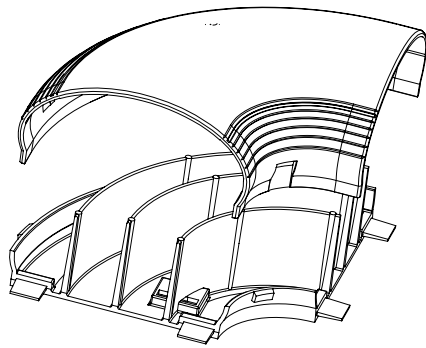
### Multi-Channel Raceway Fittings and Junction Boxes

#### Flat Elbow

Flat elbow joins raceway at a 90 degree flat angle.

#### Features and Benefits

- Raceway and fittings are manufactured from a UL94 V0 rated material to insure with codes.
- All fittings have been designed to maintain the required 1" minimum bend radius to meet TIA/EIA-568-B and 569-A standard.
- Raceway and fittings are UL Listed to 600 Volts to meet new UL5A and CSA 22.2 No. 62-93 standards.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
MCR1-FE*	MCR-FE	Flat Elbow	Ivory	1
MCRFW-FE*		Flat Elbow	Office White	1

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 \*This product meets UL standards. Please see appendix for specific file numbers.



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# Routing, Protection and Insulation

## Surface Raceway

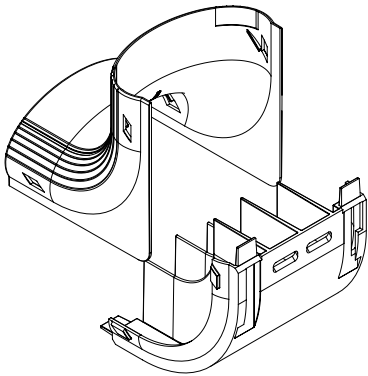
### Multi-Channel Raceway Fittings and Junction Boxes

#### Internal Elbow

Internal elbow joins raceway at a 90 degree inside corner.

#### Features and Benefits

- Raceway and fittings are manufactured from a UL94 V0 rated material to insure compliance with codes.
- All fittings have been designed to maintain the required 1" minimum bend radius to meet TIA/EIA-568-B and 569-A standard.
- Raceway and fittings are UL Listed to 600 Volts to meet new UL5A and CSA 22.2 No. 62-93 standards.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
MCRI-IE*	MCR-IE	Internal Elbow	Ivory	1
MCRFW-IE*		Internal Elbow	Office White	1

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

\*This product meets UL standards. Please see appendix for specific file numbers.



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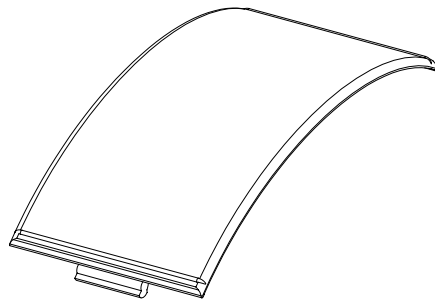
### Multi-Channel Raceway Fittings and Junction Boxes

#### Cover Splice

Cover splice joins two sections of raceway cover.

#### Features and Benefits

- Raceway and fittings are manufactured from a UL94 V0 rated material to insure compliance with codes.
- All fittings have been designed to maintain the required 1" minimum bend radius to meet TIA/EIA-568-B and 569-A standard.
- Raceway and fittings are UL Listed to 600 Volts to meet new UL5A and CSA 22.2 No. 62-93 standards.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
MCRI-CS*	MCR-CS	Cover Splice	Ivory	10
MCRFW-CS*		Cover Splice	Office White	10

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 \*This product meets UL standards. Please see appendix for specific file numbers.



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# Routing, Protection and Insulation

## Surface Raceway

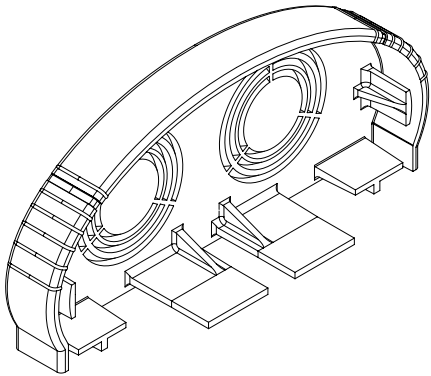
### Multi-Channel Raceway Fittings and Junction Boxes

#### End Cap

End cap completes raceway or provides transition for 1/2", 3/4" and 1" conduit.

#### Features and Benefits

- Raceway and fittings are manufactured from a UL94 V0 rated material to insure compliance with codes.
- All fittings have been designed to maintain the required 1" minimum bend radius to meet TIA/EIA-568-B and 569-A standard.
- Raceway and fittings are UL Listed to 600 Volts to meet new UL5A and CSA 22.2 No. 62-93 standards.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
MCR1-EC*	MCR-EC	End Cap	Ivory	1
MCRFW-EC*		End Cap	Office White	1

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
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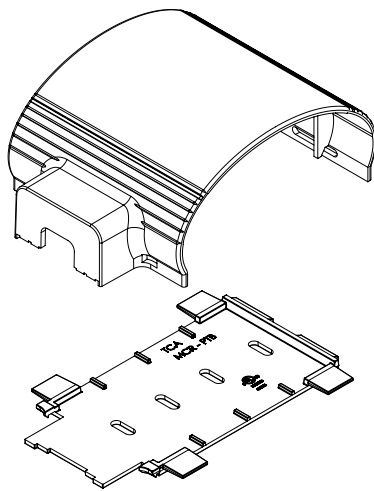
### Multi-Channel Raceway Fittings and Junction Boxes

#### Power Transition Fitting

Knockouts are provided for TSRP1, TSRP2 and TSRP3 surface raceway.

#### Features and Benefits

- Raceway and fittings are manufactured from a UL94 V0 rated material to insure compliance with codes.
- All fittings have been designed to maintain the required 1" minimum bend radius to meet TIA/EIA-568-B and 569-A standard.
- Raceway and fittings are UL Listed to 600 Volts to meet new UL5A and CSA 22.2 No. 62-93 standards.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
MCR-PTF*	MCR-PTF	Power Transition Fitting	Ivory	1
MCRFW-PTF*		Power Transition Fitting	Office White	1

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# Routing, Protection and Insulation

## Surface Raceway

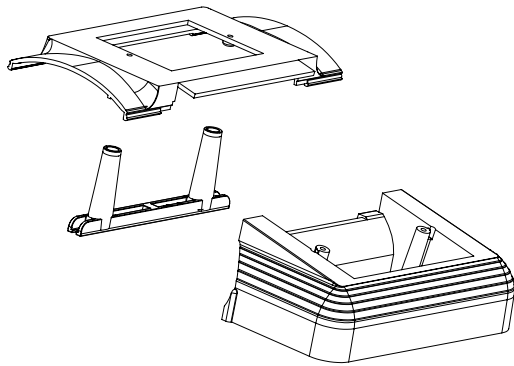
### Multi-Channel Raceway Fittings and Junction Boxes

#### Offset Box

Option for communications devices in raceway and electrical outlets on side.

#### Features and Benefits

- Raceway and fittings are manufactured from a UL94 V0 rated material to insure compliance with codes.
- All fittings have been designed to maintain the required 1" minimum bend radius to meet TIA/EIA-568-B and 569-A standard.
- Raceway and fittings are UL Listed to 600 Volts to meet new UL5A and CSA 22.2 No. 62-93 standards.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
MCRI-OB*	MCR-OB	Offset Box	Ivory	1
MCRFW-OB*		Offset Box	Office White	1

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

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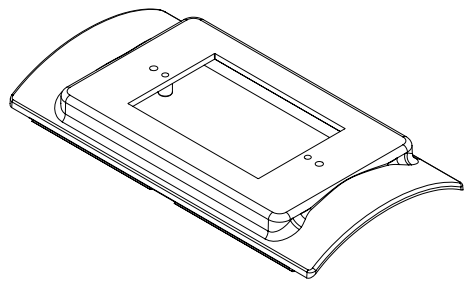
## Multi-Channel Raceway Fittings and Junction Boxes

### Raised Device Bracket

Raised device bracket is used to mount NEMA standard single gang device and faceplate. Raised bracket allows for additional wire fill space and additional device clearance. Use with side divider for 2-channel applications.

### Features and Benefits

- Raceway and fittings are manufactured from a UL94 V0 rated material to insure compliance with codes.
- All fittings have been designed to maintain the required 1" minimum bend radius to meet TIA/EIA-568-B and 569-A standard.
- Raceway and fittings are UL Listed to 600 Volts to meet new UL5A and CSA 22.2 No. 62-93 standards.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
MCR1-RDB*	MCR-RDB	Raised Device Bracket	Ivory	1
MCRFW-RDB*		Raised Device Bracket	Office White	1

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
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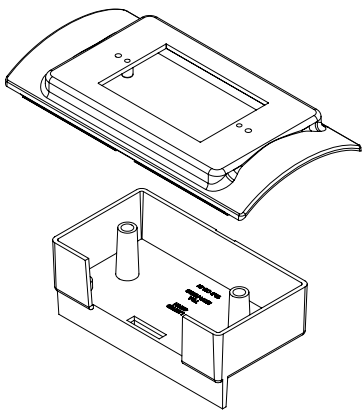
### Multi-Channel Raceway Fittings and Junction Boxes

#### Raised Electrical Box

Raised electrical box is used to mount NEMA standard single gang device and faceplate. Raised electrical box allows for additional low-voltage wire fill space. Use with side divider for 2-channel applications.

#### Features and Benefits

- Raceway and fittings are manufactured from a UL94 V0 rated material to insure compliance with codes.
- All fittings have been designed to maintain the required 1" minimum bend radius to meet TIA/EIA-568-B and 569-A standard.
- Raceway and fittings are UL Listed to 600 Volts to meet new UL5A and CSA 22.2 No. 62-93 standards.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
MCRI-REB*	MCR-REB	Raised Electrical Box	Ivory	1
MCRFW-REB*		Raised Electrical Box	Office White	1

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

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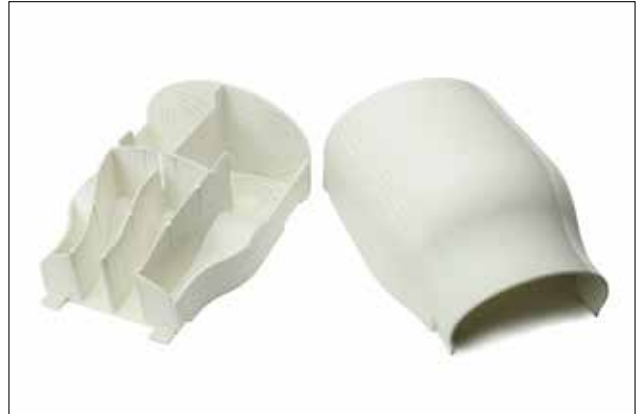
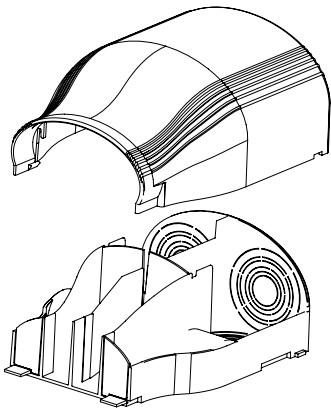
### Multi-Channel Raceway Fittings and Junction Boxes

#### Entrance End Fitting

For use as a ceiling drop, conduit transition from end or base of raceway, or low voltage entrance from end or base of raceway. Includes dual 0.75", 1.0", 1.25", 1.75", 2.0" and 2.5" knockouts.

#### Features and Benefits

- Raceway and fittings are manufactured from a UL94 V0 rated material to insure compliance with codes.
- All fittings have been designed to maintain the required 1" minimum bend radius to meet TIA/EIA-568-B and 569-A standard.
- Raceway and fittings are UL Listed to 600 Volts to meet new UL5A and CSA 22.2 No. 62-93 standards.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
MCRI-ENT*	MCR-ENT	Entrance End Fitting	Ivory	1
MCRFW-ENT*		Entrance End Fitting	Office White	1

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

\*This product meets UL standards. Please see appendix for specific file numbers.



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# Routing, Protection and Insulation

## Surface Raceway

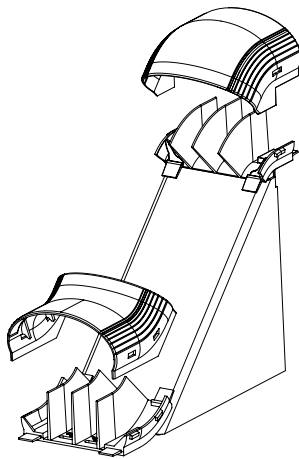
### Multi-Channel Raceway Fittings and Junction Boxes

#### Offset Elbow

For small wall offsets between 2" - 7". Used in conjunction with a piece of raceway.

#### Features and Benefits

- Raceway and fittings are manufactured from a UL94 V0 rated material to insure compliance with codes.
- All fittings have been designed to maintain the required 1" minimum bend radius to meet TIA/EIA-568-B and 569-A standard.
- Raceway and fittings are UL Listed to 600 Volts to meet new UL5A and CSA 22.2 No. 62-93 standards.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
MCRI-OE*	MCR-OE	Offset Elbow	Ivory	1
MCRFW-OE*		Offset Elbow	Office White	1

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

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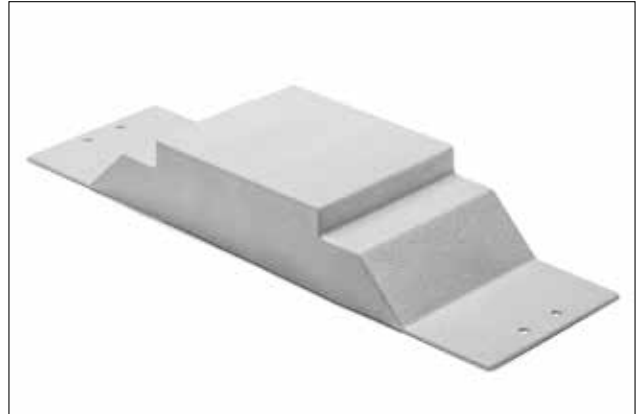
## Multi-Channel Raceway Fittings and Junction Boxes

### Offset Bridge

Offset bridge for bridging over conduit already installed on wall. Must be used with MCRFW-OE corner pieces.

#### Features and Benefits

- Raceway and fittings are manufactured from a UL94 V0 rated material to insure compliance with codes.
- All fittings have been designed to maintain the required 1" minimum bend radius to meet TIA/EIA-568-B and 569-A standard.
- Raceway and fittings are UL Listed to 600 Volts to meet new UL5A and CSA 22.2 No. 62-93 standards.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
MCRFW-OEB	MCR-OEB	Offset Bridge	Office White	1

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

# Routing, Protection and Insulation

## Surface Raceway

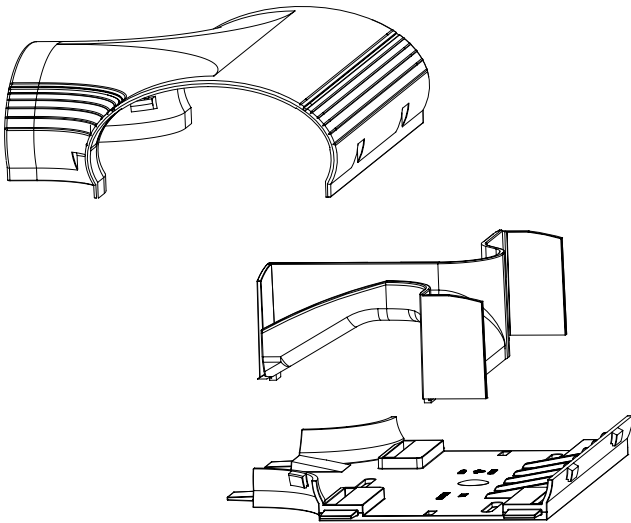
### Multi Channel Raceway Fittings and Junction Boxes

#### Tee Fittings

Tee fittings join three sections of raceway and includes a divider.

#### Features and Benefits

- Raceway and fittings are manufactured from a UL94 V0 rated material to insure compliance with codes.
- All fittings have been designed to maintain the required 1" minimum bend radius to meet TIA/EIA-568-B and 569-A standard.
- Raceway and fittings are UL Listed to 600 Volts to meet new UL5A and CSA 22.2 No. 62-93 standards.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)

**RoHS** ✓

PART NO.	TYPE	Color	Pkg. Qty.
MCRI-TE*	MCR-TE	Ivory	1
MCRFW-TE*		Office White	1

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

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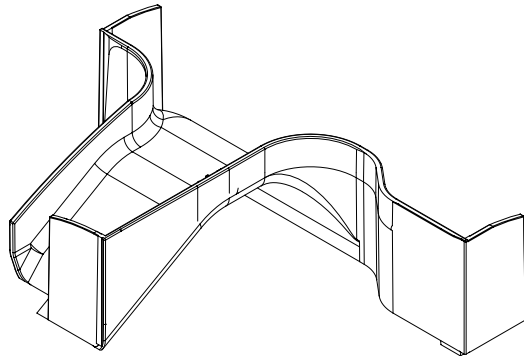
## Multi Channel Raceway Fittings and Junction Boxes

### Tee Fitting Divider - Left Side

Divides power and communications cables on the opposite side.

#### Features and Benefits

- Raceway and fittings are manufactured from a UL94 V0 rated material to insure compliance with codes.
- All fittings have been designed to maintain the required 1" minimum bend radius to meet TIA/EIA-568-B and 569-A standard.
- Raceway and fittings are UL Listed to 600 Volts to meet new UL5A and CSA 22.2 No. 62-93 standards.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Color	Pkg. Qty.
MCR-LTD*	MCR-LTD	Black	1

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 \*This product meets UL standards. Please see appendix for specific file numbers.



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# Routing, Protection and Insulation

## Surface Raceway

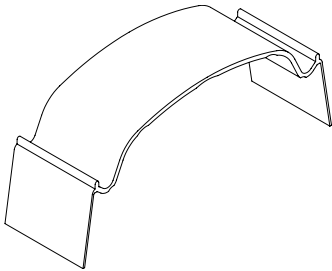
### Multi-Channel Raceway Fittings and Junction Boxes

#### Wire Retainer

Wire retainer keeps wire and cable in place. Placement recommended every 18" to 24".

#### Features and Benefits

- Wire retainer simply snaps into place.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
MCRG-WR*	MCR-WR	Wire Retainer	Office White	10

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 \*This product meets UL standards. Please see appendix for specific file numbers.

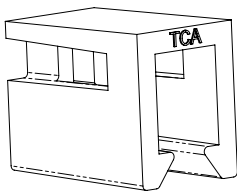
### Multi-Channel Raceway Fittings and Junction Boxes

#### Tie Mount

Tie mount keeps wire and cable bundled. Accepts standard HellermannTyton cable ties T18 - T150. Placement recommended every 18" to 24".

#### Features and Benefits

- Integrated design of the raceway tie mount allows tie wrapped bundles to be safely secured.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	+122°F (+50°C)



PART NO.	TYPE	Description	Color	Pkg. Qty.
MCRG-TM*	MCR-TM	Tie Mount	Office White	100

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 \*This product meets UL standards. Please see appendix for specific file numbers.



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### Braided Sleeving - General Purpose

#### General Purpose Expandable Braided Sleeving

Designed to adjust and expand to irregular shapes, this general purpose sleeving is lightweight and offers a high tensile strength while still maintaining flexibility. This sleeving is an excellent choice for protecting wire and cable bundles from abrasion, chafing and heat degradation. Commonly used in electrical and industrial wire harnessing application where economy and durability are required for the protection of wires, cables, tubing, bundles and pneumatic hoses.

#### Features and Benefits

- Weave construction adjusts to twisting and flexing without creating wrinkles or bends.
- Expands up to 150% of flat diameter for easy installation.
- Offers excellent abrasion and cut-through resistance as well as inertness to most chemicals and fungus.



<b>MATERIAL</b>	Polyester (PET)
<b>Operating Temperature</b>	-94°F to +257°F (-70°C to +125°C)
<b>Melting Point</b>	+482 °F (+250 °C)
<b>Abrasion Resistance</b>	Medium
<b>Flammability</b>	UL 94 V0



PART NO.	TYPE	Nominal Dia. in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Color	Reel Length ft (m)	Weight lbs. (kg)
170-03177*	BSP180	1/8 (3.2)	0.09 (2.4)	0.25 (6.4)	Black	225.0 (68.6)	0.5 (0.2)
170-03174*	BSP180B	1/8 (3.2)	0.09 (2.4)	0.25 (6.4)	Black	1000.0 (304.8)	1.8 (0.8)
170-03000*	BSP140	1/4 (6.4)	0.13 (3.2)	0.44 (11.1)	Black	200.0 (61.0)	0.5 (0.2)
170-03041*	BSP140B	1/4 (6.4)	0.13 (3.2)	0.44 (11.1)	Black	1000.0 (304.8)	2.6 (1.2)
170-03001*	BSP120	1/2 (12.7)	0.25 (6.4)	0.75 (19.1)	Black	100.0 (30.5)	0.8 (0.4)
170-03042*	BSP120B	1/2 (12.7)	0.25 (6.4)	0.75 (19.1)	Black	500.0 (152.4)	3.9 (1.8)
170-03002*	BSP340	3/4 (19.1)	0.50 (12.7)	1.25 (31.8)	Black	75.0 (22.9)	0.9 (0.4)
170-03043*	BSP340B	3/4 (19.1)	0.50 (12.7)	1.25 (31.8)	Black	250.0 (76.2)	3.0 (1.4)
170-03003*	BSP100	1 (25.4)	0.63 (15.9)	1.63 (41.3)	Black	65.0 (19.8)	0.9 (0.4)
170-03044*	BSP100B	1 (25.4)	0.63 (15.9)	1.63 (41.3)	Black	250.0 (76.2)	3.4 (1.5)
170-03004*	BSP1140	1-1/4 (31.8)	0.75 (19.1)	1.75 (44.5)	Black	50.0 (15.2)	0.8 (0.4)
170-03045*	BSP1140B	1-1/4 (31.8)	0.75 (19.1)	1.75 (44.5)	Black	250.0 (76.2)	4.0 (1.8)
170-03005*	BSP1120	1-1/2 (38.1)	1.00 (25.4)	2.13 (54.0)	Black	40.0 (12.2)	0.8 (0.4)
170-03178*	BSP200B	2 (50.8)	1.50 (38.1)	3.50 (88.9)	Black	200.0 (61.0)	6.6 (3.0)

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Precut lengths available upon request. \*This product meets UL standards. Please see appendix for specific file numbers.



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# Routing, Protection and Insulation

## Braided Sleeving

### Braided Sleeving - General Purpose

#### General Purpose Expandable Braided Sleeving - Orange

Orange PET braided sleeving is an extremely flexible, general purpose option for bundling and protecting wires and cables in abrasive type applications. Its color makes it ideal for systematic color coding of complex wiring installations. Commonly used to shield cable harnesses in battery powered vehicles, such as hybrid cars, golf carts and light trucks.

#### Features and Benefits

- Provides easy visual and safety identification of critical wiring components.
- Offers high tensile strength while maintaining extreme flexibility.
- Expands up to 150% of flat diameter for easy installation.
- Does not trap heat and humidity.
- Installs quickly and accommodates expansions and varying cable assembly shapes, reducing installation costs.



<b>MATERIAL</b>	Polyester (PET)
<b>Operating Temperature</b>	-94°F to +257°F (-70°C to +125°C)
<b>Melting Point</b>	+482 °F (+250 °C)
<b>Abrasion Resistance</b>	Medium
<b>Flammability</b>	UL 94 V0



PART NO.	TYPE	Nominal Dia. in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Color	Reel Length ft (m)	Weight lbs. (kg)
170-03076*	BSP143B	1/4 (6.4)	0.13 (3.2)	0.44 (11.1)	Orange	1000.0 (304.8)	2.6 (1.2)
170-03077*	BSP123B	1/2 (12.7)	0.25 (6.4)	0.75 (19.1)	Orange	500.0 (152.4)	3.9 (1.8)
170-03078*	BSP343B	3/4 (19.1)	0.50 (12.7)	1.25 (31.8)	Orange	250.0 (76.2)	3.0 (1.4)
170-03079*	BSP103B	1 (25.4)	0.63 (15.9)	1.63 (41.3)	Orange	250.0 (76.2)	3.4 (1.5)
170-03080*	BSP1143B	1-1/4 (31.8)	0.75 (19.1)	1.75 (44.5)	Orange	250.0 (76.2)	4.0 (1.8)
170-03081*	BSP1123B	1-1/2 (38.1)	1.50 (38.1)	3.50 (88.9)	Orange	200.0 (61.0)	6.6 (3.0)

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### Braided Sleeving - General Purpose

#### Fray Resistant Expandable Braided Sleeving

A versatile and economical general purpose sleeving that resists fraying when cut with ordinary scissors. For use in automotive, industrial and computer applications where the wires, cables and hoses being covered endure frequent handling. It is suited for situations where access to a hot knife is either impractical or impossible.

#### Features and Benefits

- Cuts with scissors without fraying ends enables field installations without need for hot knife.
- Expands to 150% of easy installation and reduced assembly time requirements.
- Material construction offers excellent abrasion and cut-through protection as well as inertness to common chemicals and fungus.



<b>MATERIAL</b>	Polyester (PET)
<b>Operating Temperature</b>	-94°F to +257°F (-70°C to +125°C)
<b>Melting Point</b>	+482 °F (+250 °C)
<b>Abrasion Resistance</b>	Medium
<b>Flammability</b>	UL 94 V0



PART NO.	TYPE	Nominal Dia. in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Color	Reel Length ft (m)	Weight lbs. (kg)
170-03123*	BSPSC180	1/8 (3.3)	0.13 (3.2)	0.25 (6.4)	Black	100.0 (30.5)	0.4 (0.2)
170-03035*	BSPSC140	1/4 (6.4)	0.16 (4.0)	0.44 (11.1)	Black	100.0 (30.5)	0.5 (0.2)
170-03012*	BSPSC120	1/2 (12.7)	0.25 (6.4)	0.75 (19.1)	Black	100.0 (30.5)	0.8 (0.4)
170-03013*	BSPSC340	3/4 (19.1)	0.63 (15.9)	1.00 (25.4)	Black	75.0 (22.9)	0.8 (0.4)
170-03014*	BSPSC100	1 (25.4)	0.75 (19.1)	1.19 (30.2)	Black	50.0 (15.2)	0.6 (0.3)
170-03015*	BSPSC1140	1-1/4 (31.8)	1.00 (25.4)	1.50 (38.1)	Black	50.0 (15.2)	0.8 (0.4)
170-03016*	BSPSC1120	1-1/2 (38.1)	1.25 (31.8)	2.00 (50.8)	Black	50.0 (15.2)	0.9 (0.4)

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\*This product meets UL standards. Please see appendix for specific file numbers.



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# Routing, Protection and Insulation

## Braided Sleeving

### Braided Sleeving - General Purpose

#### Heavy-Duty Braided Sleeving

Sleeving made of a tightly woven nylon fabric, slides onto hoses, cables and components to protect them from abrasion and environmental elements, including UV damage. Also protects surrounding surfaces from damage.

#### Features and Benefits

- Tightly woven fabric bundles and protects cables and hoses from sunlight and abrasion damage; also deflects high pressure hose ruptures.
- Nylon material resists gasoline, salt and other chemicals.
- Cut to size easily with regular scissors.



<b>MATERIAL</b>	Polyamide 6 (PA6)
<b>Operating Temperature</b>	-49°F to +248°F (-45°C to +120°C)
<b>Flammability</b>	Non-Flammable



PART NO.	TYPE	Nominal Dia. in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Color	Reel Length ft (m)
170-03203	BSHDWV	1 (25.4)	0.10 (2.54)	0.95 (24.1)	Black	50.0 (15.2)
170-03204		1-1/2 (38.1)	0.10 (2.54)	1.50 (38.1)	Black	50.0 (15.2)
170-03205		2 (50.8)	0.10 (2.54)	2.00 (50.8)	Black	50.0 (15.2)
170-03206		2-1/2 (63.5)	0.10 (2.54)	2.50 (63.5)	Black	50.0 (15.2)
170-03207		3 (76.2)	0.10 (2.54)	3.00 (76.2)	Black	25.0 (7.6)

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

### Braided Sleeving - Flame Retardant

#### Flame Retardant Expandable Braided Sleeving

A flame retardant polyester sleeving that is resistant to cuts and abrasion, and contains a combustion inhibitor allowing it to achieve a UL flame resistance rating of VW-1. Contains white tracer thread for easy identification. This braided sleeving is ideal for electronic and high tech applications because of its lightweight and durable qualities.

#### Features and Benefits

- Treated polyester material contains a combustion inhibitor for use in applications where flame retardancy is required.
- Braided design allows sleeving to expand by 150% to accommodate variations in wire bundle and eases installation.
- Contains white tracer thread for simple identification of flame retardancy.



<b>MATERIAL</b>	Polyester (PET)
<b>Operating Temperature</b>	-94°F to +257°F (-70°C to +125°C)
<b>Melting Point</b>	+482 °F (+250 °C)
<b>Abrasion Resistance</b>	Medium
<b>Flammability</b>	UL VW-1



PART NO.	TYPE	Nominal Dia. in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Color	Reel Length ft (m)	Weight lbs. (kg)
170-03089*	BSPFR180B	1/8 (3.2)	0.09 (2.4)	0.25 (6.4)	Black	1,000.0 (304.8)	1.6 (0.7)
170-03071*	BSPFR188	1/8 (3.2)	0.09 (2.4)	0.25 (6.4)	Gray	225.0 (68.6)	0.4 (0.2)
170-03006*	BSPFR140	1/4 (6.4)	0.13 (3.2)	0.44 (11.1)	Black	200.0 (61.0)	0.5 (0.2)
170-03090*	BSPFR140B	1/4 (6.4)	0.13 (3.2)	0.44 (11.1)	Black	1,000.0 (304.8)	2.4 (1.1)
170-03072*	BSPFR148	1/4 (6.4)	0.13 (3.2)	0.44 (11.1)	Gray	200.0 (61.0)	0.5 (0.2)
170-03187*	BSPFR380	3/8 (9.5)	0.19 (4.8)	0.50 (12.7)	Black	500.0 (152.4)	2.9 (1.3)
170-03007*	BSPFR120	1/2 (12.7)	0.25 (6.4)	0.75 (19.1)	Black	100.0 (30.5)	0.7 (0.3)
170-03091*	BSPFR120B	1/2 (12.7)	0.25 (6.4)	0.75 (19.1)	Black	500.0 (152.4)	3.6 (1.6)
170-03073*	BSPFR128	1/2 (12.7)	0.25 (6.4)	0.75 (19.1)	Gray	100.0 (30.5)	0.7 (0.3)
170-03008*	BSPFR340	3/4 (19.1)	0.50 (12.7)	1.25 (31.8)	Black	75.0 (22.9)	0.7 (0.3)
170-03092*	BSPFR340B	3/4 (19.1)	0.50 (12.7)	1.25 (31.8)	Black	250.0 (76.2)	2.2 (1.0)
170-03074*	BSPFR348	3/4 (19.1)	0.50 (12.7)	1.25 (31.8)	Gray	75.0 (22.9)	0.7 (0.3)
170-03093*	BSPFR100B	1 (25.4)	0.63 (15.9)	1.63 (41.3)	Black	250.0 (76.2)	3.4 (1.5)
170-03010*	BSPFR1140	1-1/4 (31.8)	0.75 (19.1)	1.75 (44.5)	Black	50.0 (15.2)	0.8 (0.4)
170-03094*	BSPFR1140B	1-1/4 (31.8)	0.75 (19.1)	1.75 (44.5)	Black	250.0 (76.2)	4.0 (1.8)
170-03011*	BSPFR1120	1-1/2 (38.1)	1.00 (25.4)	2.13 (53.9)	Black	40.0 (12.2)	0.8 (0.4)
170-03095*	BSPFR1120B	1-1/2 (38.1)	1.00 (25.4)	2.13 (54.0)	Black	200.0 (61.0)	3.9 (1.8)
170-03066*	BSPFR1128	1-1/2 (38.1)	1.00 (25.4)	2.13 (53.9)	Gray	40.0 (12.2)	0.8 (0.4)

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

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### Braided Sleeving - Flame Retardant

#### Flame Retardant, Fray Resistant Expandable Braided Sleeving

This protective sleeving is self-extinguishing and can be cut with sharp scissors instead of a hot knife for fray-resistant ends. Readily used in the automotive, audiovisual, industrial, wire, cable and computer industries where flame retardancy is required to reduce the likelihood of ignition and/or reduce the rate of flame spread. It is suited for situations where access to a hot knife is either impractical or impossible.

#### Features and Benefits

- Provides fuller coverage and a medium-to-high abrasion resistance.
- Expands for ease of installation in either the shop or the field.
- Increased braid density coverage provides higher level of abrasion resistance without losing flexibility.
- Contains white tracer thread for simple identification of flame retardancy.
- Treated yarns extinguish quickly and reduces potential flame spread to surrounding components.
- Cuts with ordinary scissors without fraying ends.



<b>MATERIAL</b>	Polyester (PET)
<b>Operating Temperature</b>	-94°F to +257°F (-70°C to +125°C)
<b>Melting Point</b>	+482 °F (+250 °C)
<b>Abrasion Resistance</b>	Medium
<b>Flammability</b>	UL VW-1



PART NO.	TYPE	Nominal Dia. in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Color	Reel Length ft (m)	Weight lbs. (kg)
170-03116*	BSSCFR180B	1/8 (3.3)	0.13 (3.2)	0.25 (6.4)	Black	1,000.0 (304.8)	4.0 (1.8)
170-03036*	BSSCFR140	1/4 (6.4)	0.16 (4.0)	0.44 (11.1)	Black	100.0 (30.5)	0.4 (0.2)
170-03117*	BSSCFR140B	1/4 (6.4)	0.16 (4.0)	0.44 (11.1)	Black	1,000.0 (304.8)	4.6 (2.1)
170-03017*	BSSCFR120	1/2 (12.7)	0.25 (6.4)	0.75 (19.1)	Black	100.0 (30.5)	0.8 (0.4)
170-03118*	BSSCFR120B	1/2 (12.7)	0.25 (6.4)	0.75 (19.1)	Black	500.0 (152.4)	4.1 (1.9)
170-03018*	BSSCFR340	3/4 (19.1)	0.63 (15.9)	1.00 (25.4)	Black	75.0 (22.9)	0.8 (0.4)
170-03119*	BSSCFR340B	3/4 (19.1)	0.63 (15.9)	1.00 (25.4)	Black	250.0 (76.2)	2.8 (1.3)
170-03019*	BSSCFR100	1 (25.4)	0.75 (19.1)	1.19 (30.2)	Black	50.0 (15.2)	0.6 (0.3)
170-03120*	BSSCFR100B	1 (25.4)	0.75 (19.1)	1.20 (30.5)	Black	250.0 (76.2)	3.1 (1.4)
170-03020*	BSSCFR1140	1-1/4 (31.8)	1.00 (25.4)	1.50 (38.1)	Black	50.0 (15.2)	0.8 (0.4)
170-03121*	BSSCFR1140B	1-1/4 (31.8)	1.00 (25.4)	1.50 (38.1)	Black	250.0 (76.2)	3.9 (1.8)
170-03021*	BSSCFR1120	1-1/2 (38.1)	1.25 (31.8)	2.00 (50.8)	Black	50.0 (15.2)	0.9 (0.4)
170-03122*	BSSCFR1120B	1-1/2 (38.1)	1.25 (31.8)	2.00 (50.8)	Black	250.0 (76.2)	4.6 (2.1)

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### Braided Sleeving - Flame Retardant

#### Hook and Loop Flame Retardant Expandable Braided Sleeving

Flame retardant expandable braided sleeving with hook and loop strip for wrapping around cable assemblies. Color matched hook and loop closure provides an easy on and off installation, as well as convenient access for harness break-outs and when maintenance is necessary. Material is self-extinguishing and complies with UL VW-1 standards.

#### Features and Benefits

- Flexible construction that conforms to irregular shapes and contours.
- Hook and loop feature wraps over cable bundle allowing future access to cables.
- Easy access saves assembly time and allows for easy splicing or insertion of additional wires.
- Meets military specifications (Mil-202 approved.)
- Cuts easily with a benchmount hot knife.
- Resists chemicals and cleaning solvents.



<b>MATERIAL</b>	Polyester (PET)
<b>Operating Temperature</b>	-94°F to +257°F (-70°C to +125°C)
<b>Melting Point</b>	+482 °F (+250 °C)
<b>Abrasion Resistance</b>	Medium
<b>Flammability</b>	UL VW-1



PART NO.	TYPE	Nominal Dia. in. (mm)	Wall Thickness (WT) in. (mm)	Color	Reel Length ft (m)	Weight lbs. (kg)
170-03153*	BSHKLPFR120B	1/2 (12.7)	0.025 (0.635)	Black	100.0 (30.5)	1.3 (0.6)
170-03154*	BSHKLPFR340B	3/4 (19.1)	0.025 (0.635)	Black	100.0 (30.5)	1.8 (0.8)
170-03155*	BSHKLPFR1140B	1-1/4 (31.8)	0.025 (0.635)	Black	100.0 (30.5)	2.3 (1.0)
170-03156*	BSHKLPFR200B	2 (50.8)	0.025 (0.635)	Black	100.0 (30.5)	3.2 (1.5)
170-03157*	BSHKLPFR212B	2-1/2 (63.5)	0.025 (0.635)	Black	100.0 (30.5)	3.75 (1.7)

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# Routing, Protection and Insulation

## Braided Sleeving

### Braided Sleeving - Flame Retardant

#### Split Wrap Flame Retardant Expandable Braided Sleeving

Used when flame retardancy is a primary requirement, this protection option incorporates a lateral split which allows the tube to open up to accommodate a variety of bundling requirements. The semi-rigid braid configuration simply closes around the entire installation without the need for any additional fasteners. Split wrap flame retardant braided sleeving is self-extinguishing and complies with UL VW-1 standards where cables exit a wall and need to be managed for an uncluttered, clean appearance.

#### Features and Benefits

- Split wrap design installs quickly, saving assembly time and future accessibility without disassembly.
- Unique construction retains shape and rigidity throughout operating temperature range.
- Easy open design allows quick assembly, future access, and ability to apply protective sleeving post assembly or post installation situations.
- Self wrapping design eliminates the need for fasteners.
- Provides a greater flexibility than spiralwrap or convoluted tubing.



<b>MATERIAL</b>	Polyester (PET)
<b>Operating Temperature</b>	-94°F to +257°F (-70°C to +125°C)
<b>Melting Point</b>	+446 °F (+230 °C)
<b>Abrasion Resistance</b>	High
<b>Flammability</b>	UL VW-1



PART NO.	TYPE	Nominal Dia. in. (mm)	Max. Bundle Diameter in. (mm)	Color	Reel Length ft (m)	Weight lbs. (kg)
170-03140*	BSSWFR180B	1/8 (3.2)	0.13 (3.2)	Black	400.0 (121.9)	0.8 (0.4)
170-03141*	BSSWFR140B	1/4 (6.4)	0.25 (6.4)	Black	200.0 (61.0)	1.2 (0.5)
170-03142*	BSSWFR120B	1/2 (12.7)	0.50 (12.7)	Black	150.0 (45.7)	2.1 (1.0)
170-03143*	BSSWFR340B	3/4 (19.1)	0.75 (19.1)	Black	100.0 (30.5)	1.6 (0.7)
170-03144*	BSSWFR100B	1 (25.4)	1.00 (25.4)	Black	100.0 (30.5)	2.0 (0.9)
170-03145*	BSSWFR1140B	1-1/4 (31.8)	1.25 (31.8)	Black	75.0 (22.9)	1.8 (0.8)
170-03146*	BSSWFR1120B	1-1/2 (38.1)	1.50 (38.1)	Black	75.0 (22.9)	2.1 (1.0)
170-03147*	BSSWFR200B	2 (50.8)	2.00 (50.8)	Black	50.0 (15.2)	1.8 (0.8)

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 \*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

### Braided Sleeving - High Temperature

#### Extreme High Temperature Resin Saturated Fiberglass Braided Sleeving

An extremely high-temperature resistant sleeving designed to protect wires and cables subjected to continuous temperature variations, vibration, abrasion, and mechanical stress. Perfect for engine manifolds and exhaust systems or any application where fire and extreme temperatures create a hazard to workforce and equipment.

#### Features and Benefits

- An exceptionally tough sleeving material which provides thermal protection up to 1,200°F.
- Sturdy construction maintains its tight structure under extreme shaking, scraping, pressure and varying temperature conditions.
- Cuts easily with ordinary scissors for easy application.
- UL VW-1 flammability rating for use in conditions requiring a very high degree of flame resistance.



<b>MATERIAL</b>	Glass Fiber (GF)
<b>Operating Temperature</b>	-94°F to +1202°F (-70°C to +650°C)
<b>Melting Point</b>	+2048 °F (1120 °C)
<b>Abrasion Resistance</b>	Very high
<b>Flammability</b>	UL VW-1



PART NO.	TYPE	Nominal Dia. in. (mm)	Wall Thickness (WT) in. (mm)	Max. Bundle Diameter in. (mm)	Color	Reel Length ft (m)	Weight lbs. (kg)
170-03050*	BSHTFG140B	1/4 (6.4)	0.031 (0.79)	0.38 (9.5)	Black	200.0 (61.0)	4.0 (1.8)
170-03058*	BSHTFG140	1/4 (6.4)	0.031 (0.79)	0.38 (9.5)	Black	50.0 (15.2)	1.0 (0.5)
170-03051*	BSHTFG120B	1/2 (12.7)	0.046 (1.17)	0.75 (19.1)	Black	200.0 (61.0)	9.6 (4.4)
170-03059*	BSHTFG120	1/2 (12.7)	0.046 (1.67)	0.75 (19.1)	Black	50.0 (15.2)	2.4 (1.1)
170-03052*	BSHTFG340B	3/4 (19.1)	0.046 (1.17)	1.13 (28.6)	Black	200.0 (61.0)	12.8 (5.8)
170-03060*	BSHTFG340	3/4 (19.1)	0.046 (1.67)	1.13 (28.6)	Black	50.0 (15.2)	3.2 (1.5)
170-03053*	BSHTFG100B	1 (25.4)	0.057 (1.45)	1.63 (41.3)	Black	100.0 (30.5)	10.5 (4.8)
170-03061*	BSHTFG100	1 (25.4)	0.057 (1.45)	1.63 (41.3)	Black	25.0 (7.6)	2.6 (1.2)

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

\*This product meets UL standards. Please see appendix for specific file numbers.



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# Routing, Protection and Insulation

## Braided Sleeving

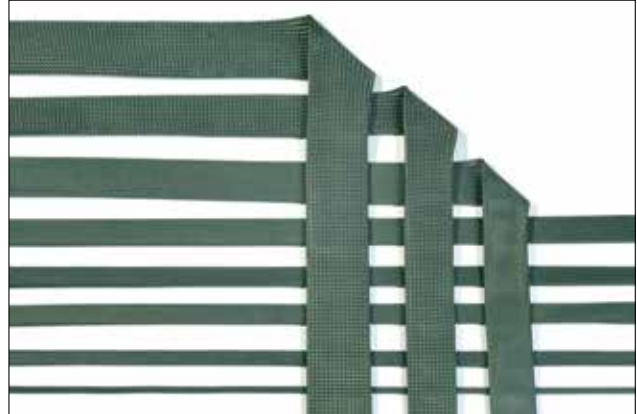
### Braided Sleeving - High Temperature

#### High Temperature Nomex® Expandable Braided Sleeving

A densely woven aramid fiber sleeving, this soft and flexible material is self extinguishing and can withstand temperatures reaching up to 662°F. Excellent for use in extremely harsh environments including those with exposure to direct flame, high temperatures, as well as Beta, Gamma and X-Ray radiation - in particular, military and aerospace wiring and harnessing applications.

#### Features and Benefits

- Self extinguishing material does not melt and is unaffected by most acids, and provides excellent thermal stability against direct flame.
- Provides excellent thermal stability.
- Meets FMVSS 302 specifications for use in automotive engineering.
- Material cuts with ordinary scissors which reduces assembly time.



<b>MATERIAL</b>	Polyaramid Polymetaphenylene Isophthalamide
<b>Operating Temperature</b>	-320°F to +662°F (-196 °C to +350 °C)
<b>Abrasion Resistance</b>	Low
<b>Flammability</b>	UL VW-1



PART NO.	TYPE	Nominal Dia. in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Color	Reel Length ft (m)	Weight lbs. (kg) (Weight lbs. (kg))
170-03158	BSNMX185B	1/8 (3.1)	0.1 (1.5)	0.3 (6.4)	Green	100.0 (30.5)	0.1 (0.1)
170-03159	BSNMX145B	1/4 (6.4)	0.1 (3.3)	0.3 (7.9)	Green	100.0 (30.5)	0.5 (0.2)
170-03160	BSNMX385B	3/8 (9.7)	0.3 (6.4)	0.5 (12.7)	Green	100.0 (30.5)	0.7 (0.3)
170-03161	BSNMX125B	1/2 (12.7)	0.3 (7.9)	0.6 (16.0)	Green	100.0 (30.5)	0.9 (0.4)
170-03162	BSNMX345B	3/4 (19.1)	0.6 (14.2)	1.0 (25.4)	Green	100.0 (30.5)	1.3 (0.6)
170-03163	BSNMX105B	1 (25.4)	0.8 (19.1)	1.1 (28.7)	Green	100.0 (30.5)	2.4 (1.1)
170-03164	BSNMX1145B	1-1/4 (31.8)	1.0 (25.4)	1.5 (38.1)	Green	100.0 (30.5)	3.5 (1.6)
170-03165	BSNMX1125B	1-1/2 (38.1)	1.3 (31.8)	1.8 (44.4)	Green	100.0 (30.5)	4.0 (1.8)
170-03166	BSNMX1345B	1-3/4 (44.4)	1.5 (38.1)	2.0 (50.8)	Green	100.0 (30.5)	4.8 (2.2)

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Nomex® is a registered trademark of the DuPont Corporation.



### Braided Sleeving - High Temperature

#### High Temperature Aluminum Laminated Fiberglass - Sleeves

High Temperature Aluminum Laminated Fiberglass Sleeving is a tubular shaped product that combines the protection of bonded aluminum and fiberglass into a single solution that is able to reflect radiant heat away from the sensitive contents inside the tube.

#### Features and Benefits

- A layer of aluminum provides protection from chemicals, scraping, cuts and abrasion.
- Additional layer also provides insulation barrier for vulnerable wires and cables within high temperature environments.
- Cuts with ordinary scissors for fast, easy application.



<b>MATERIAL</b>	Aluminum (AL), Glass Fiber (GF)
<b>Operating Temperature</b>	-76°F to +491°F (-60°C to +255°C)
<b>Melting Point</b>	+2048 °F (1120 °C)
<b>Flammability</b>	Non-Flammable



PART NO.	TYPE	Nominal Dia. in. (mm)	Wall Thickness (WT) in. (mm)	Max. Bundle Diameter in. (mm)	Color	Reel Length ft (m)	Weight lbs. (kg)
170-03175	BSHTTST38SR	3/8 (9.7)	0.025 (0.64)	0.44 (11.1)	Silver	100.0 (30.5)	2.3 (1.1)
170-03062	BSHTTST12SR	1/2 (12.7)	0.025 (0.64)	0.44 (11.1)	Silver	100.0 (30.5)	2.6 (1.2)
170-03054	BSHTTST12SRB	1/2 (12.7)	0.025 (0.64)	0.44 (11.1)	Silver	250.0 (76.2)	6.4 (2.9)
170-03063	BSHTTST34SR	3/4 (19.1)	0.025 (0.64)	0.69 (17.5)	Silver	100.0 (30.5)	3.5 (1.6)
170-03055	BSHTTST34SRB	3/4 (19.1)	0.025 (0.64)	0.69 (17.4)	Silver	250.0 (76.2)	8.6 (3.9)
170-03064	BSHTTST10SR	1 (25.4)	0.025 (0.64)	0.94 (23.8)	Silver	100.0 (30.5)	4.5 (2.0)
170-03056	BSHTTST10SRB	1 (25.4)	0.025 (0.64)	0.94 (23.8)	Silver	250.0 (76.2)	11.3 (5.1)
170-03065	BSHTTST134SR	1-3/4 (44.5)	0.025 (0.64)	1.69 (42.8)	Silver	50.0 (15.2)	3.7 (1.7)
170-03057	BSHTTST134SRB	1-3/4 (44.5)	0.025 (0.64)	1.69 (42.8)	Silver	100.0 (30.5)	7.4 (3.4)
170-03097	BSHTTST212SR	2-1/2 (63.5)	0.025 (0.64)	2.38 (60.3)	Silver	50.0 (15.2)	5.1 (2.3)

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
Nominal diameter measures external diameter of sleeving.

# Routing, Protection and Insulation

## Braided Sleeving

### Braided Sleeving - High Temperature

#### High Temperature Aluminum Laminated Fiberglass Wraps

Aluminum Laminated Fiberglass Wrap sleeving combines the protection of bonded aluminum and fiberglass into a robust solution that deflects radiant heat away from sensitive wires and cables. Wrap-around design allows for fast and easy installation and maintenance. Sold in 4-foot sticks.

#### Features and Benefits

- A layer of aluminum provides protection from chemicals, scraping, cuts and abrasion.
- Additional layer also provides insulation barrier for vulnerable wires and cables within high temperature environments.
- Cuts with ordinary scissors for fast, easy application.



<b>MATERIAL</b>	Glass fiber with aluminium foil (GF-AL)
<b>Operating Temperature</b>	-76°F to +491°F (-60°C to +255°C)
<b>Melting Point</b>	+2048 °F (1120 °C)
<b>Flammability</b>	Non-Flammable



PART NO.	TYPE	Nominal Dia. in. (mm)	Wall Thickness (WT) in. (mm)	Max. Bundle Diameter in. (mm)	Color	Pkg. Qty.
170-03190	BSHTTSW14SB	1/4 (6.35)	0.042 (1.06)	0.20 (5.1)	Silver	50
170-03191	BSHTTSW38SB	3/8 (9.4)	0.042 (1.06)	0.30 (7.62)	Silver	30
170-03192	BSHTTSW12SB	1/2 (12.70)	0.042 (1.06)	0.45 (11.4)	Silver	25
170-03199	BSHTTSW12LB	1/2 (12.70)	0.042 (1.06)	0.45 (11.4)	Silver	70
170-03193	BSHTTSW58SB	5/8 (16.00)	0.042 (1.06)	0.50 (12.7)	Silver	20
170-03194	BSHTTSW34SB	3/4 (19.05)	0.042 (1.06)	0.65 (16.5)	Silver	15
170-03200	BSHTTSW34LB	3/4 (19.05)	0.042 (1.06)	0.65 (16.5)	Silver	50
170-03201	BSHTTSW1LB	1 (25.40)	0.042 (1.06)	0.95 (24.1)	Silver	30
170-03195	BSHTTSW1SB	1 (25.40)	0.042 (1.06)	0.95 (24.1)	Silver	9
170-03196	BSHTTSW114SB	1-1/4 (31.75)	0.042 (1.06)	1.20 (30.5)	Silver	6
170-03202	BSHTTSW112LB	1-1/2 (38.1)	0.042 (1.06)	1.25 (31.8)	Silver	15
170-03197	BSHTTSW112SB	1-1/2 (38.1)	0.042 (1.06)	1.45 (36.8)	Silver	4
170-03198	BSHTTSW2SB	2 (50.8)	0.042 (1.06)	1.95 (49.5)	Silver	2

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

### Braided Sleeving - Wraps

#### Split Wrap Woven Braided Sleeving

A lateral split, semi-rigid and flame retardant braided sleeving configuration used when ease of installation and repeat access to wire bundle is required. The lateral split allows the sleeving to open and accommodate a variety of bundling requirements. The 25% edge overlap rolls back over connectors and splices without exposing the bundled wires. More flexible than spiral wraps or convoluted tubing, this product is a fast and easy option for adding protection in post-assembly or post-installation applications.

#### Features and Benefits

- Split wrap design needs no fasteners and installs quickly, saving assembly time and future accessibility without disassembly.
- Bends to a tight radius without distortion or splitting open.
- Unique construction retains shape and rigidity throughout unrolling.
- Easy open design allows quick access and ability to apply protective sleeving post assembly or post installation situations.



<b>MATERIAL</b>	Polyester (PET)
<b>Operating Temperature</b>	-94°F to +257°F (-70°C to +125°C)
<b>Melting Point</b>	+482 °F (+250 °C)
<b>Abrasion Resistance</b>	Medium
<b>Flammability</b>	UL 94 V0



PART NO.	TYPE	Nominal Dia. in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Color	Reel Length ft (m)	Weight lbs. (kg)
170-03181*	BSSWV380B	3/8 (9.5)	0.10 (2.5)	0.38 (9.5)	Black	450.0 (137.2)	6.8 (3.1)
170-03182*	BSSWV120B	1/2 (12.7)	0.10 (2.5)	0.50 (12.7)	Black	300.0 (91.4)	5.4 (2.5)
170-03183*	BSSWV580B	5/8 (15.8)	0.10 (2.5)	0.63 (15.8)	Black	250.0 (76.2)	5.3 (2.4)
170-03184*	BSSWV340B	3/4 (19.1)	0.10 (2.5)	0.75 (19.1)	Black	150.0 (45.7)	3.6 (1.6)
170-03185*	BSSWV100B	1 (25.4)	0.10 (2.5)	1.00 (25.4)	Black	100.0 (30.5)	3.2 (1.5)
170-03186*	BSSWV1120B	1-1/2 (38.1)	0.10 (2.5)	1.50 (38.1)	Black	50.0 (15.2)	2.3 (1.0)

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Additional sizes available upon request. \*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

# Routing, Protection and Insulation

## Braided Sleeving

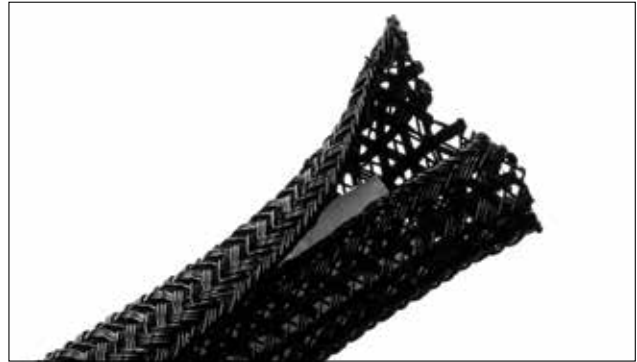
### Braided Sleeving - Wraps

#### Split Wrap Braided Sleeving - Black

A bundling and protection option with a lateral split and a semi-rigid braid configuration that is the ideal solution for circumstances where ease of installation is the primary concern. The lateral split allows the sleeving to open up to adjust to the bundling requirement while the 25% edge overlap folds back over to protect the connector or splices. More flexible than spiral wraps or convoluted tubing, this product is a fast and easy option for adding protection in post-assembly or post-installation situations.

#### Features and Benefits

- Needs no fasteners (i.e., tape, hook and loop, etc.)
- Bends to a tight radius without distortion or splitting open.
- Allows future access without disassembly.
- Withstands cuts, abrasions and tension.



<b>MATERIAL</b>	Polyester (PET)
<b>Operating Temperature</b>	-94°F to +257°F (-70°C to +125°C)
<b>Melting Point</b>	+482 °F (+250 °C)
<b>Abrasion Resistance</b>	Medium
<b>Flammability</b>	UL 94 V0



PART NO.	TYPE	Nominal Dia. in. (mm)	Max. Bundle Diameter in. (mm)	Color	Reel Length ft (m)	Weight lbs. (kg)
170-03124*	BSPSW180B	1/8 (3.2)	0.13 (3.2)	Black	400.0 (121.9)	0.8 (0.4)
170-03132*	BSPSW180LB	1/8 (3.2)	0.13 (3.2)	Black	10,000.0 (3048.8)	20.0 (9.0)
170-03037*	BSPSW140	1/4 (6.4)	0.25 (6.4)	Black	100.0 (30.5)	0.6 (0.3)
170-03125*	BSPSW140B	1/4 (6.4)	0.25 (6.4)	Black	200.0 (61.0)	1.2 (0.5)
170-03133*	BSPSW140LB	1/4 (6.4)	0.25 (6.4)	Black	3,000.0 (914.4)	18.0 (8.2)
170-03213*	BSPSW380LB	3/8 (9.5)	0.38 (9.6)	Black	1,500.0 (457.2)	15.0 (6.8)
170-03024*	BSPSW120	1/2 (12.7)	0.50 (12.7)	Black	75.0 (22.9)	1.1 (0.5)
170-03126*	BSPSW120B	1/2 (12.7)	0.50 (12.7)	Black	150.0 (45.7)	2.1 (1.0)
170-03134*	BSPSW120LB	1/2 (12.7)	0.50 (12.7)	Black	1,200.0 (365.8)	12.0 (5.4)
170-03038*	BSPSW340	3/4 (19.1)	0.75 (19.1)	Black	50.0 (15.2)	0.8 (0.4)
170-03127*	BSPSW340B	3/4 (19.1)	0.75 (19.1)	Black	100.0 (30.5)	1.6 (0.7)
170-03135*	BSPSW340LB	3/4 (19.1)	0.75 (19.1)	Black	500.0 (152.4)	16.8 (7.6)
170-03025*	BSPSW100	1 (25.4)	1.00 (25.4)	Black	50.0 (15.2)	1.0 (0.5)
170-03128*	BSPSW100B	1 (25.4)	1.00 (25.4)	Black	100.0 (30.5)	2.0 (0.9)
170-03136*	BSPSW100LB	1 (25.4)	1.00 (25.4)	Black	400.0 (121.9)	8.0 (3.6)
170-03026*	BSPSW1140	1-1/4 (31.8)	1.25 (31.8)	Black	25.0 (7.6)	0.6 (0.3)
170-03129*	BSPSW1140B	1-1/4 (31.8)	1.25 (31.8)	Black	75.0 (22.9)	1.8 (0.8)
170-03137*	BSPSW1140LB	1-1/4 (31.8)	1.25 (31.8)	Black	250.0 (76.2)	6.0 (2.7)
170-03130*	BSPSW1120B	1-1/2 (38.1)	1.50 (38.1)	Black	75.0 (22.9)	2.1 (1.0)
170-03138*	BSPSW1120LB	1-1/2 (38.1)	1.50 (38.1)	Black	200.0 (61.0)	7.2 (3.3)
170-03131*	BSPSW200B	2 (50.8)	2.00 (50.8)	Black	50.0 (15.2)	1.8 (0.8)
170-03139*	BSPSW200LB	2 (50.8)	2.00 (50.8)	Black	150.0 (45.7)	5.4 (2.4)

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

\*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

### Braided Sleeving - Wraps

#### Split Wrap Braided Sleeving - Orange

Used for safety identification, this bundling and protection option also offers a lateral split and a semi-rigid braid configuration that wraps around the bundle assembly without requiring any fasteners, such as hook and loop, cable ties or tape. Orange color provides identification in electrical powered vehicles.

#### Features and Benefits

- Split wrap design needs no fasteners and installs quickly, saving assembly time and future accessibility without disassembly.
- Bends to a tight radius without distortion or splitting open.
- Unique construction retains shape and rigidity throughout unrolling.
- Easy open design allows quick access and ability to apply protective sleeving post assembly or post installation situations.



<b>MATERIAL</b>	Polyester (PET)
<b>Operating Temperature</b>	-94°F to +257°F (-70°C to +125°C)
<b>Melting Point</b>	+482 °F (+250 °C)
<b>Abrasion Resistance</b>	Medium
<b>Flammability</b>	UL 94 V0



PART NO.	TYPE	Nominal Dia. in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Color	Reel Length ft (m)	Weight lbs. (kg)
170-03082*	BSPSW143B	1/4 (6.4)	0.10 (2.5)	0.25 (6.4)	Orange	200.0 (61.0)	1.2 (0.5)
170-03083*	BSPSW123B	1/2 (12.7)	0.10 (2.5)	0.50 (12.7)	Orange	150.0 (45.7)	2.1 (1.0)
170-03084*	BSPSW343B	3/4 (19.1)	0.10 (2.5)	0.75 (19.1)	Orange	100.0 (30.5)	1.6 (0.7)
170-03085*	BSPSW103B	1 (25.4)	0.10 (2.5)	1.00 (25.4)	Orange	100.0 (30.5)	2.0 (0.9)
170-03086*	BSPSW1143B	1-1/4 (31.8)	0.10 (2.5)	1.25 (31.8)	Orange	75.0 (22.9)	1.8 (0.8)
170-03087*	BSPSW1123B	1-1/2 (38.1)	0.10 (2.5)	1.50 (38.1)	Orange	75.0 (22.9)	2.1 (1.0)
170-03088*	BSPSW203B	2 (50.8)	0.10 (2.5)	2.00 (50.8)	Orange	50.0 (15.2)	1.8 (0.8)

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

\*This product meets UL standards. Please see appendix for specific file numbers.



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# Routing, Protection and Insulation

## Braided Sleeving

### Braided Sleeving - Wraps

#### Hook and Loop Expandable Braided Sleeving

Designed for the quick and easy management of wires, this expandable sleeving has an internal hook and loop strap that is able to adhere to its outer PET braid, delivering flexibility that allows it to fit around odd-shaped connectors. Its color-matched hook and loop closure provides for an easy on and off installation, as well as instant and convenient access for harness break-outs and networks. The primary application for this sleeving is the wrapping and bunching of cables in a deployed situation or when frequent access to cables is necessary.

#### Features and Benefits

- Flexible construction that conforms to irregular shapes and contours.
- Hook and loop feature wraps over cable bundle allowing future access to cables.
- Easy access saves assembly time and allows for easy splicing or insertion of additional wires.
- PET yarn construction offers excellent protection against cuts and abrasions.



<b>MATERIAL</b>	Polyester (PET)
<b>Operating Temperature</b>	-94°F to +257°F (-70°C to +125°C)
<b>Melting Point</b>	+482 °F (+250 °C)
<b>Abrasion Resistance</b>	Medium
<b>Flammability</b>	UL 94 V0



<b>PART NO.</b>	<b>TYPE</b>	<b>Nominal Dia. in. (mm)</b>	<b>Wall Thickness (WT) in. (mm)</b>	<b>Color</b>	<b>Reel Length ft (m)</b>	<b>Weight lbs. (kg)</b>
170-03148*	BSHKLP120B	1/2 (12.7)	0.025 (0.635)	Black	100.0 (30.5)	1.3 (0.6)
170-03149*	BSHKLP340B	3/4 (19.1)	0.025 (0.635)	Black	100.0 (30.5)	1.8 (0.8)
170-03150*	BSHKLP1140B	1-1/4 (31.8)	0.025 (0.635)	Black	100.0 (30.5)	2.3 (1.0)
170-03151*	BSHKLP200B	2 (50.8)	0.025 (0.635)	Black	100.0 (30.5)	3.2 (1.5)
170-03152*	BSHKLP212B	2-1/2 (63.5)	0.025 (0.635)	Black	100.0 (30.5)	3.8 (1.7)

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

\*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

### Braided Sleeving - Specialty

#### Polyamide 6.6 Expandable Braided Sleeving - Black

A pliable yet durable nylon sleeve that protects against cuts, abrasion and excessive wear caused by repetitive motion. Used on hoses, pipes, wiring harnesses and cables installed in cars, trucks, military vehicles, trains and industrial equipment. Protects delicate wiring in engine compartments and near exhaust systems or used to organize wires and breakouts in electrical harnesses.

#### Features and Benefits

- Resists fuels, salts and solvents, gasoline, and other common contaminants.
- Nylon monofilament construction weave offers a tight, 12 mil braid that provides full coverage but will not rot or retain moisture.
- Material performs well in wet applications and where abiding substrate has a smooth surface.
- Expands up to 150% of flat diameter for easy installation.



<b>MATERIAL</b>	Polyamide 6.6 (PA66)
<b>Operating Temperature</b>	-49°F to +302°F (-45°C to +150°C)
<b>Melting Point</b>	+491 °F (+255 °C)
<b>Abrasion Resistance</b>	High
<b>Flammability</b>	Non-Flammable



PART NO.	TYPE	Nominal Dia. in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Color	Reel Length ft (m)	Weight lbs. (kg)
170-03209	BSPA66180	1/8 (3.2)	0.1 (2.5)	0.1 (3.1)	Black	225.0 (68.58)	0.6 (0.27)
170-03069	BSPA66140	1/4 (6.4)	0.1 (3.2)	0.4 (9.5)	Black	200.0 (61.0)	0.6 (0.27)
170-03070	BSPA66140B	1/4 (6.4)	0.1 (3.2)	0.4 (9.5)	Black	1000.0 (304.8)	3.1 (1.41)
170-03027	BSPA66120	1/2 (12.7)	0.4 (9.5)	0.8 (19.1)	Black	100.0 (30.4)	1.0 (0.47)
170-03046	BSPA66120B	1/2 (12.7)	0.4 (9.5)	0.8 (19.1)	Black	500.0 (152.4)	5.2 (2.34)
170-03210	BSPA66580	5/8 (15.9)	0.1 (2.5)	0.6 (15.2)	Black	100.0 (30.48)	1.1 (0.5)
170-03028	BSPA66340	3/4 (19.1)	0.5 (12.7)	1.3 (31.8)	Black	75.0 (22.9)	1.1 (0.5)
170-03047	BSPA66340B	3/4 (19.1)	0.5 (12.7)	1.3 (31.8)	Black	250.0 (76.2)	3.7 (1.67)
170-03029	BSPA66100	1 (25.4)	0.6 (15.9)	1.4 (35.0)	Black	50.0 (15.2)	0.8 (0.36)
170-03048	BSPA66100B	1 (25.4)	0.6 (15.9)	1.4 (35.0)	Black	250.0 (76.2)	4.0 (1.81)
170-03030	BSPA661140	1-1/4 (31.8)	0.8 (19.1)	1.5 (38.1)	Black	50.0 (15.2)	0.9 (0.40)
170-03049	BSPA661140B	1-1/4 (31.8)	0.8 (19.1)	1.5 (38.1)	Black	250.0 (76.2)	4.5 (2.04)

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Precut lengths available upon request.

# Routing, Protection and Insulation

## Braided Sleeving

### Braided Sleeving - Specialty

#### Polyamide 6.6 Helagaine Expandable Braided Sleeving - Gray

This lightweight protective sleeving is made from heat-stabilized monofilament strands that offer toughness and excellent resistance to abrasion. Despite its sturdy composition, Helagaine is expandable and durable and can easily be applied over irregular surfaces. Helagaine HEGPA66 is particularly suitable for vehicle manufacturing and transportation industry applications.

#### Features and Benefits

- Strand diameter is approximately 10% larger than that of polyester, allowing for greater expandability.
- Resists fuels, salts and solvents, gasoline, and other common contaminants.
- Performs well in wet applications and where abiding substrate has a smooth surface.



<b>MATERIAL</b>	Polyamide 6.6 (PA66)
<b>Operating Temperature</b>	-76°F to +302°F (-60°C to +150°C)
<b>Melting Point</b>	+491 °F (+255 °C)
<b>Abrasion Resistance</b>	High
<b>Flammability</b>	UL 94 V2



PART NO.	TYPE	Nominal Dia. in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Color	Reel Length ft (m)	Weight lbs. (kg)
170-20400	HEGPA6604	5/32 (4.0)	0.1 (3.0)	0.2 (6.0)	Gray	656.0 (200.0)	1.1 (0.5)
170-20600	HEGPA6606	1/4 (6.0)	0.2 (4.0)	0.3 (8.0)	Gray	328.0 (100.0)	1.3 (0.59)
170-20800	HEGPA6608	5/16 (8.0)	0.2 (5.0)	0.4 (10.0)	Gray	328.0 (100.0)	1.1 (0.5)
170-21000	HEGPA6610	3/8 (10.0)	0.3 (7.0)	0.5 (12.0)	Gray	328.0 (100.0)	2.1 (0.95)
170-21200	HEGPA6612	1/2 (12.0)	0.3 (8.0)	0.6 (14.0)	Gray	328.0 (100.0)	2.4 (1.1)
170-22000	HEGPA6620	3/4 (20.0)	0.6 (15.0)	0.9 (23.0)	Gray	164.0 (50.0)	3.1 (1.4)
170-22500	HEGPA6625	1 (25.0)	0.7 (18.0)	1.1 (28.0)	Gray	164.0 (50.0)	3.9 (1.8)
170-23000	HEGPA6630	1-1/4 (30.0)	1.0 (25.0)	1.3 (32.0)	Gray	164.0 (50.0)	4.9 (2.25)
170-25000	HEGPA6650	2 (50.0)	1.6 (40.0)	2.2 (55.0)	Gray	164.0 (50.0)	10.4 (4.7)

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



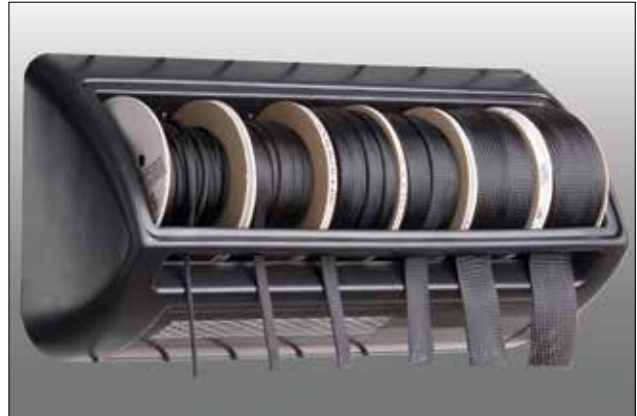
### Braided Sleeving - Accessories

#### Merchandising Display Rack

Designed to save space and provide easy access when dispensing braided sleeving, this unit allows for the efficient handling and management of sleeving.

#### Features and Benefits

- Holds six standard sized spools for easy dispensing and cut to length counter sales.
- Compact design saves space and allows for efficient handling and management of sleeving.
- Constructed of durable ABS plastic.
- Includes mounting hardware.



#### MATERIAL

Acrylonitrile Butadiene Styrene (ABS)

HF ✓

RoHS ✓

PART NO.	TYPE	Width (W) in. (mm)	Height (H) in. (mm)	Depth (D) in. (mm)	Color
170-03031	BSDISPLAY	23.5 (59.7)	6.0 (15.3)	10.0 (25.4)	Black

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

### Braided Sleeving - Accessories

#### Bench Mount Hot Knife

For best results during sleeving installation, most braided sleeving should be cut with a hot knife.

#### Features and Benefits

- Hot knife is designed and built durable to withstand production environments.
- 2.5" blades are replaceable.
- Heats to 1,112 °F in 30 seconds.
- 110 volt operation.



PART NO.	TYPE	Color
170-03039	BSBHK	White

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

#### Portable Hot Knife

For best results during sleeving installation, most braided sleeving should be cut with a hot knife.

#### Features and Benefits

- Heats quickly.
- Trigger switch.
- 110 volt operation.
- Blades are replaceable.



PART NO.	TYPE	Color
170-03040	BSPHK	Black

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

### Braided Sleeving - Accessories

#### Split Wrap Installation Tools

HellermannTyton offers a wide variety of application tools to assist in the installation of wrap-around styles of braided sleeving.

#### Features and Benefits

- HellermannTyton braided sleeving installation tools are designed for use with split wrap style sleeveings.
- Tools are designed and built durable to withstand production environments.
- Tools can also be used on split-loom convoluted tubing products.



PART NO.	TYPE	Description	Color
170-03067	BSWTOOL14	1/4" Split Wrap Installation Tool	Orange
170-03032	BSWTOOL12	1/2" Split Wrap Installation Tool	Orange
170-03068	BSWTOOL34	3/4" Split Wrap Installation Tool	Orange
170-03033	BSWTOOL1	1" Split Wrap Installation Tool	Orange
170-03034	BSWTOOL114	1-1/4" Split Wrap Installation Tool	Orange

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

# Routing, Protection and Insulation

## Helawrap Protective Tubing

### Helawrap - General Purpose

#### HWPP Series - Polypropylene (PP)

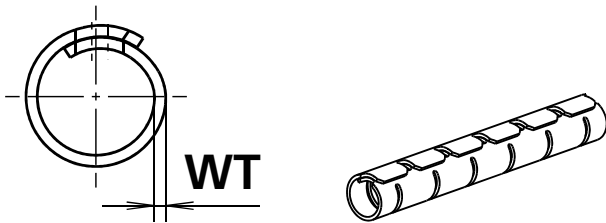
The Helawrap Cable Management System is the flexible routing and protection solution for industrial, datacom and electrical applications. Helawrap easily wraps around cables with a "zipper-like" motion to protect against abrasion and mechanical stress caused by movement and bending. A handy application tool is included in every package for faster installations.

#### Features and Benefits

- Unique open design for easy branch-offs at any point along the harness
- Overwrap formation provides abrasion protection and accommodates multiple bundle configurations
- Flexible construction and design eliminates pinch points and minimizes bending fatigue, making it ideal for applications involving movement and vibration
- Split shape allows for future access without disassembly



<b>MATERIAL</b>	Polypropylene (PP)
<b>Operating Temperature</b>	-76°F to +230°F (-60°C to +110°C)
<b>Melting Point</b>	+284 °F (+140 °C)
<b>Flammability</b>	UL 94 HB



PART NO.	TYPE	Nominal Dia. in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Color	Pkg. Qty. ft. (m)	Wall Thickness (WT) in. (mm)	Weight lbs. (kg)
161-64112	HWPP8	5/16 (8.0)	0.31 (7.87)	0.36 (9.14)	Black	100 (30.48)	0.030 (0.75)	1.61 lbs (0.73)
161-64213	HWPP16	5/8 (16.0)	0.51 (12.95)	0.63 (16.0)	Black	100 (30.48)	0.030 (0.80)	2.55 lbs (1.16)
161-64216		5/8 (16.0)	0.51 (12.95)	0.63 (16.0)	White	100 (30.48)	0.030 (0.80)	2.55 lbs (1.16)
161-64310	HWPP20	3/4 (20.0)	0.71 (18.03)	0.83 (21.08)	Black	100 (30.48)	0.037 (0.95)	2.56 lbs (1.18)
161-64311		3/4 (20.0)	0.71 (18.03)	0.83 (21.08)	White	100 (30.48)	0.037 (0.95)	2.56 lbs (1.18)
161-64414	HWPP25	1 (25.0)	0.91 (23.11)	1.06 (26.92)	Black	100 (30.48)	0.041 (1.05)	6.45 lbs (2.93)
161-64416		1 (25.0)	0.91 (23.11)	1.06 (26.92)	White	100 (30.48)	0.041 (1.05)	6.45 lbs (2.93)
161-64507	HWPP30	1-1/4 (30.0)	1.14 (29.0)	1.26 (32.0)	Black	100 (30.48)	0.050 (1.30)	9.58 lbs (4.39)

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

### Helawrap - General Purpose

#### HWPP Series Convenience Packs - Polypropylene (PP)

The Helawrap Cable Management System is the flexible routing and protection solution for industrial, datacom and electrical applications. Helawrap easily wraps around cables with a "zipper-like" motion to protect against abrasion and mechanical stress caused by movement and bending. A handy application tool is included in every package for faster installations.

#### Features and Benefits

- Unique open design for easy branch-offs at any point along the harness
- Overwrap formation provides abrasion protection and accommodates multiple bundle configurations
- Flexible construction and design eliminates pinch points and minimizes bending fatigue, making it ideal for applications involving movement and vibration
- Split shape allows for future access without disassembly



<b>MATERIAL</b>	Polypropylene (PP)
<b>Operating Temperature</b>	-76°F to +230°F (-60°C to +110°C)
<b>Melting Point</b>	+284 °F (+140 °C)
<b>Flammability</b>	UL 94 HB



PART NO.	TYPE	Nominal Dia. in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Color	Pkg. Qty. ft. (m)	Wall Thickness (WT) in. (mm)	Weight lbs. (kg)
161-62000	HWPP16	5/8 (16.0)	0.51 (12.95)	0.63 (16.0)	Black	10 (3.05)	0.030 (0.75)	0.26 lbs (0.12)
161-64217		5/8 (16.0)	0.51 (12.95)	0.63 (16.0)	White	10 (3.05)	0.030 (0.75)	0.26 lbs (0.12)
161-62001	HWPP25	1 (25.0)	0.91 (23.11)	1.06 (26.92)	Black	10 (3.05)	0.041 (1.05)	0.65 lbs (0.29)
161-64417		1 (25.0)	0.91 (23.11)	1.06 (26.92)	White	10 (3.05)	0.041 (1.05)	0.65 lbs (0.29)

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

# Routing, Protection and Insulation

## Helawrap Protective Tubing

### Helawrap - Flame Retardant

#### HWPA6-V0 Series - Polyamide 6 V0 (PA6V0)

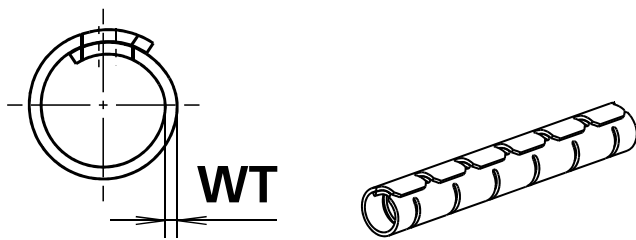
The Helawrap Cable Management System is the flexible routing and protection solution for industrial, datacom and electrical applications. Helawrap easily wraps around cables with a "zipper-like" motion to protect against abrasion and mechanical stress caused by movement and bending. A handy application tool is included in every package for faster installations.

#### Features and Benefits

- Designed for applications that demand high flame retardant materials
- Unique open design allows for easy branch-offs at any point along the harness
- Overwrap formation provides abrasion protection and accommodates multiple bundle configurations
- Flexible construction and design is well suited for applications that involve movement and vibration
- Easy-to-use installation tool makes assembly fast and easy



<b>MATERIAL</b>	Polyamide 6 V0 (PA6V0)
<b>Operating Temperature</b>	-40°F to +194°F (-40°C to +90°C)
<b>Melting Point</b>	+248 °F (+120 °C)
<b>Flammability</b>	UL 94 V0



PART NO.	TYPE	Nominal Dia. in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Color	Pkg. Qty. ft. (m)	Wall Thickness (WT) in. (mm)	Weight lbs. (kg)
161-63103*	HWPAV08	5/16 (8.0)	0.28 (7.0)	0.36 (9.0)	Black	100 (30.48)	0.030 (0.75)	2.66 lbs (1.21)
161-63203*	HWPAV016	5/8 (16.0)	0.51 (13.0)	0.63 (16.0)	Black	100 (30.48)	0.030 (0.80)	3.95 lbs (1.79)
161-63303*	HWPAV020	3/4 (20.0)	0.71 (18.0)	0.83 (21.0)	Black	100 (30.48)	0.037 (0.95)	5.73 lbs (2.6)
161-63403*	HWPAV025	1 (25.0)	0.91 (23.0)	1.06 (27.0)	Black	100 (30.48)	0.041 (1.05)	8.06 lbs (3.66)
161-63503*	HWPAV030	1-1/4 (31.75)	1.14 (29.0)	1.26 (32.0)	Black	100 (30.48)	0.050 (1.30)	9.83 lbs (4.46)

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 \*This product meets UL standards. Please see appendix for specific file numbers.

EN 45545-2



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

### Helawrap - Clips, Bases, and Tools

#### Application (Clips)

Helawrap accessory clips and mounting bases can be linked together to bundle, protect and secure any number of cables on industrial machines, as well as in the door area of an automation wiring cabinet where repeated movement occurs. Each clip size sits snugly around the corresponding Helawrap sleeving and holds it firmly in place. With an innovative coupling system, each clip is to be joined to a mounting plate or another clip of any size. Many clips can be linked together and each can turn freely. As a result, any number of differing cable sizes can be bundled together.

#### Features and Benefits

- An innovative coupling system allows for an unlimited number of bundling combinations.
- Clips can be easily released and reused.
- Clips swivel freely which reduces mechanical stress and eliminates pinch points.
- High Impact Polyamide 6.6 material provides firm fit even in rugged conditions.
- Consists of acrylate adhesive with base of polyurethane foam allowing it to adhere firmly and easily to nearly any surface.



<b>MATERIAL</b>	Polyamide 6.6, high impact modified, heat stabilized (PA66HIRHS)	Flexible Polyvinyl Chloride, cadmium free (PVC)
<b>Operating Temperature</b>	-40°F to +221°F (-40°C to +105°C)	-31°F to +122°F (-35°C to +50°C)
<b>Melting Point</b>	+284 °F (+140 °C)	
<b>Flammability</b>	UL 94 HB	UL 94 V2

HF ✓

RoHS ✓

RoHS ✓

PART NO.	TYPE	Nominal Dia. (D) in. (mm)	Description	Material	Color	Pkg. Qty.	Weight lbs. (kg)
161-64002	HWCLIP08	5/16 (8.0)	Accessory Clip	PA66HIRHS	Black	50	0.19 (0.09)
161-64004	HWCLIP16	5/8 (16.0)	Accessory Clip	PA66HIRHS	Black	50	0.3 (0.14)
161-64006	HWCLIP20	3/4 (20.0)	Accessory Clip	PA66HIRHS	Black	50	0.35 (0.16)
161-64008	HWCLIP25	1 (25.0)	Accessory Clip	PA66HIRHS	Black	50	0.42 (0.19)
161-64010	HWCLIP30	1-1/4 (30.0)	Accessory Clip	PA66HIRHS	Black	50	0.31 (0.23)
201-20010	R1	-	Protective Strap	PVC	Black	500	0.66 (0.3)

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

# Routing, Protection and Insulation

## Helawrap Protective Tubing

### Helawrap - Clips, Bases and Mounts

#### Helawrap Bases

With the highly adaptable base plate, cables can be protected alongside most existing structures and installations. The plate can be affixed with screws, with a cable tie threaded through or around the base of the plate, or with an adhesive to provide a long-lasting hold.

#### Features and Benefits

- Mounting bases can be fixed with screws, cable ties or adhesive.
- Can be used to mount any size HWClip.
- Consists of acrylate adhesive with base of polyurethane foam allowing it to adhere firmly and easily to nearly any surface.



<b>MATERIAL</b>	Polyamide 6.6, high impact modified, heat stabilized (PA66HIRHS)
<b>Operating Temperature</b>	-40°F to +221°F (-40°C to +105°C)
<b>Melting Point</b>	+284 °F (+140 °C)
<b>Flammability</b>	UL 94 HB



<b>PART NO.</b>	<b>TYPE</b>	<b>Adhesive</b>	<b>Color</b>	<b>Pkg. Qty.</b>	<b>Weight lbs. (kg)</b>
161-64014	HWBASE	-	Black	50	0.3 (0.14)
161-64013	HWBASEA	Acrylate with base of polyurethane foam	Black	50	0.4 (0.16)

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



### Helawrap - Clips, Bases, and Tools

#### Application Tool (HAT)

The Helawrap Applicator Tool enables the user to bundle cable rapidly and effortlessly. The applicator tool has been optimized to glide smoothly and securely through the cover and therefore allow easy insertion of cable into Helawrap. The unique design also allows individual cables to be separated from the applicator tool and branched off through the cover apertures. A tool is included with each Helawrap box. Additional tools can be purchased separately.

#### Features and Benefits

- Designed to glide smoothly through the Helawrap sleeve for easy insertion of cable bundles
- There is no need to disassemble wire harness when using the Helawrap Application Tool
- Tool is designed for post-installation applications, allowing for unplanned engineering changes to be corrected with ease



#### MATERIAL

Polyamide 6.6 (PA66)

HF ✓

RoHS ✓

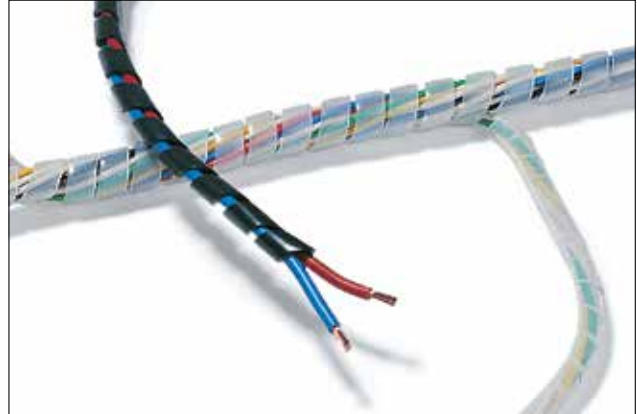
PART NO.	TYPE	Nominal Dia. in. (mm)	Color	Pkg. Qty.	Weight lbs. (kg)
161-60001	HAT8	5/16 (8.0)	Blue	10	0.1 (0.035)
161-60002	HAT16	5/8 (16.0)	Blue	10	0.3 (0.122)
161-60003	HAT20	3/4 (20.0)	Blue	10	0.5 (0.204)
161-60004	HAT25	1 (25.0)	Blue	10	0.7 (0.321)
161-60005	HAT30	1-1/4 (30.0)	Blue	10	0.8 (0.348)

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

### Spiralwrap - General Purpose

#### Spiralwrap in Polyamide 6

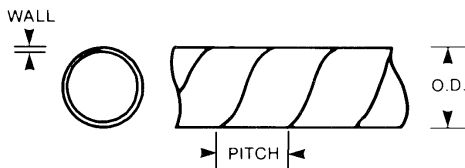
HellermannTyton Spiralwrap provides an effective means for routing and securing wires around corners and bends, and helps keep wires out of pinch points within moving panel doors. Spiralwrap is installed using a gapped or butted installation which impacts harnesses flexibility, wire coverage and abrasion resistance. A gapped installation leaves space between the sheathing to accommodate breakouts and adds flexibility to the harness. A butted installation wraps tightly around the bundle to provide greater abrasion resistance and add rigidity. Natural PA6 nylon material is recommended for use within enclosed environments where possibility of fire exists. Black PA6 nylon material is suitable for outdoor applications and can be used in direct sunlight for extended periods of time.



#### Features and Benefits

- Nylon PA6 is six times stronger than Polyethylene materials.
- Sheathing allows flexible routing and lead-out of cables.
- The inner edges are beveled preventing damage to cables.
- Sheathing is reusable and resistant to most chemicals.

<b>MATERIAL</b>	Polyamide 6 (PA6)
<b>Flammability</b>	Self-Extinguishing
<b>Operating Temperature</b>	-40°F to +250°F (-40°C to +121°C)



PART NO.	TYPE	Diameter (D) in. (mm)	Wall Thickness (WT) in. (mm)	Pitch in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Color	Pkg. Qty.
1N0C*	1N	0.13 (3.18)	0.015 (0.38)	0.19 (4.75)	0.06 (1.60)	0.50 (12.70)	Black	100 ft
1N9C*		0.13 (3.18)	0.015 (0.38)	0.19 (4.75)	0.06 (1.60)	0.50 (12.70)	Natural	100 ft
2N0C*	2N	0.25 (6.35)	0.025 (0.64)	0.38 (9.53)	0.18 (4.75)	2.00 (50.80)	Black	100 ft
2N9C*		0.25 (6.35)	0.025 (0.64)	0.38 (9.53)	0.18 (4.75)	2.00 (50.80)	Natural	100 ft
2.5N0C*	2.5N	0.38 (9.53)	0.035 (0.89)	0.44 (11.13)	0.31 (7.92)	3.00 (76.20)	Black	100 ft
2.5N9C*		0.38 (9.53)	0.035 (0.89)	0.44 (11.13)	0.31 (7.92)	3.00 (76.20)	Natural	100 ft
3N0C*	3N	0.50 (12.70)	0.035 (0.89)	0.50 (12.70)	0.38 (9.52)	4.00 (102.00)	Black	100 ft
3N9C*		0.50 (12.70)	0.035 (0.89)	0.50 (12.70)	0.38 (9.52)	4.00 (102.00)	Natural	100 ft
4N0C*	4N	0.75 (19.05)	0.032 (0.81)	0.75 (19.05)	0.50 (12.70)	5.00 (127.00)	Black	100 ft
4N9C*		0.75 (19.05)	0.032 (0.81)	0.75 (19.05)	0.50 (12.70)	5.00 (127.00)	Natural	100 ft
5N0C*	5N	1.00 (25.40)	0.032 (0.81)	1.00 (25.40)	1.00 (25.40)	7.00 (178.00)	Black	100 ft
5N9C*		1.00 (25.40)	0.032 (0.81)	1.00 (25.40)	1.00 (25.40)	7.00 (178.00)	Natural	100 ft

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

\*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

### Spiralwrap - General Purpose

#### Polyethylene Spiralwrap

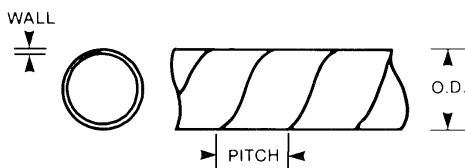
HellermannTyton's Spiralwrap protective sheathing provides cable protection and flexible routing. Spiralwrap is wrapped around a group of cables to shield and organize. Polyethylene is ideal for general applications that are not affected by ordinary solvents. Ultraviolet resistant black polyethylene is for outdoor use. It has the same qualities as clear polyethylene, but also contains an ultraviolet absorber which permits it to be used in direct sunlight for long periods of time. Available in colors.

#### Features and Benefits

- Sheathing allows flexible routing and lead-out of cables.
- The inner edges are beveled preventing damage to cables.
- Sheathing is reusable and resistant to most chemicals.



<b>MATERIAL</b>	Polyethylene (PE)
<b>Flammability</b>	Flammable
<b>Operating Temperature</b>	-76°F to +190°F (-60°C to +88°C)



PART NO.	TYPE	Diameter (D) in. (mm)	Wall Thickness (WT) in. (mm)	Pitch in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Color	Pkg. Qty.
1NFP0C*	1NFP	0.13 (3.18)	0.032 (0.81)	0.19 (4.75)	0.06 (1.60)	0.50 (12.70)	Black	100 ft
1NFP9C*		0.13 (3.18)	0.032 (0.81)	0.19 (4.75)	0.06 (1.60)	0.50 (12.70)	Natural	100 ft
2NFP0C*	2NFP	0.25 (6.35)	0.045 (1.14)	0.38 (9.53)	0.18 (4.75)	2.00 (50.80)	Black	100 ft
2NFP9C*		0.25 (6.35)	0.045 (1.14)	0.38 (9.53)	0.18 (4.75)	2.00 (50.80)	Natural	100 ft
2.5NFP0C*	2.5NFP	0.38 (9.53)	0.052 (1.32)	0.44 (11.13)	0.31 (7.92)	3.00 (76.20)	Black	100 ft
2.5NFP9C*		0.38 (9.53)	0.052 (1.32)	0.44 (11.13)	0.31 (7.92)	3.00 (76.20)	Natural	100 ft
3NFP0C*	3NFP	0.50 (12.70)	0.062 (1.57)	0.56 (14.30)	0.38 (9.52)	4.00 (102.00)	Black	100 ft
3NFP9C*		0.50 (12.70)	0.062 (1.57)	0.56 (14.30)	0.38 (9.52)	4.00 (102.00)	Natural	100 ft
4NFP0C*	4NFP	0.75 (19.05)	0.065 (1.65)	0.75 (19.05)	0.75 (19.10)	5.00 (127.00)	Black	100 ft
4NFP9C*		0.75 (19.05)	0.065 (1.65)	0.75 (19.05)	0.75 (19.10)	5.00 (127.00)	Natural	100 ft
5NFP0C*	5NFP	1.00 (25.40)	0.095 (2.41)	1.00 (25.40)	1.00 (25.40)	7.00 (178.00)	Black	100 ft
5NFP9C*		1.00 (25.40)	0.095 (2.41)	1.00 (25.40)	1.00 (25.40)	7.00 (178.00)	Natural	100 ft

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

\*This product meets UL standards. Please see appendix for specific file numbers.



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# Routing, Protection and Insulation

## Spiralwrap

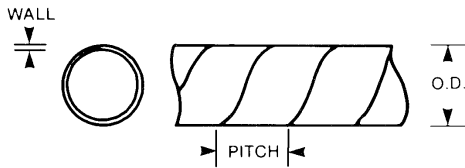
### Spiralwrap - Special Materials

#### Flame Retardant Polyethylene Spiralwrap

HellermannTyton's Spiralwrap protective sheathing provides cable protection and flexible routing. Spiralwrap is wrapped around a group of cables to shield and organize. Suitable for applications requiring a self-extinguishing material. Lower cost than polyamide 6 or Teflon materials. Natural color is milky white.

#### Features and Benefits

- Sheathing allows flexible routing and lead-out of cables
- The inner edges are beveled preventing damage to cables
- Sheathing is reusable and resistant to most chemicals



<b>MATERIAL</b>	Polyethylene, flame retardant (PE-FR)
<b>Flammability</b>	UL 94 V2
<b>Operating Temperature</b>	-4°F to +176°F (-20°C to +80°C)



PART NO.	TYPE	Diameter (D) in. (mm)	Wall Thickness (WT) in. (mm)	Pitch in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Color	Pkg. Qty.
1FRP0C	1FRP	0.13 (3.18)	0.032 (0.81)	0.19 (4.75)	0.06 (1.6)	0.50 (12.7)	Black	100 ft
1FRP9C*		0.13 (3.18)	0.032 (0.81)	0.19 (4.75)	0.06 (1.6)	0.50 (12.7)	Natural	100 ft
2FRP0C*	2FRP	0.25 (6.35)	0.045 (1.14)	0.38 (9.53)	0.18 (4.75)	2.00 (50.8)	Black	100 ft
2FRP9C*		0.25 (6.35)	0.045 (1.14)	0.38 (9.53)	0.18 (4.75)	2.00 (50.8)	Natural	100 ft
2.5FRP0C	2.5FRP	0.38 (9.53)	0.052 (0.81)	0.44 (11.13)	0.31 (7.92)	3.00 (76.2)	Black	100 ft
2.5FRP9C*		0.38 (9.53)	0.052 (0.81)	0.44 (11.13)	0.31 (7.92)	3.00 (76.2)	Natural	100 ft
3FRP0C*	3FRP	0.50 (12.7)	0.062 (1.57)	0.56 (14.3)	0.37 (9.52)	4.00 (102.0)	Black	100 ft
3FRP9C*		0.50 (12.7)	0.062 (1.57)	0.56 (14.3)	0.37 (9.52)	4.00 (102.0)	Natural	100 ft
4FRP0C	4FRP	0.75 (19.05)	0.065 (1.65)	0.75 (19.05)	0.75 (19.05)	5.00 (127.0)	Black	100 ft
4FRP9C*		0.75 (19.05)	0.065 (1.65)	0.75 (19.05)	0.75 (19.05)	5.00 (127.0)	Natural	100 ft
161-05084	5FRP	1.00 (25.4)	0.095 (2.41)	1.00 (25.4)	1.00 (25.4)	7.00 (178.0)	Black	100 ft
5FRP9C*		1.00 (25.4)	0.095 (2.41)	1.00 (25.4)	1.00 (25.4)	7.00 (178.0)	Natural	100 ft

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

\*This product meets UL standards. Please see appendix for specific file numbers.



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### Spiralwrap - Special Materials

#### Spiralwrap in Polytetrafluoroethylene-Teflon

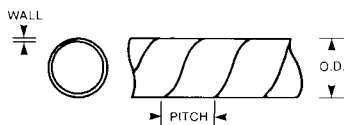
HellermannTyton's Spiralwrap protective sheathing provides cable protection and flexible routing. Spiralwrap is wrapped around a group of cables to shield and organize. Polytetrafluoroethylene-Teflon (PTFE) offers the widest operating temperature range of any material. It's chemically inert and nonflammable. Natural color is milky white. Available by special order in black and colors.

#### Features and Benefits

- Sheathing allows flexible routing and lead-out of cables
- The inner edges are beveled preventing damage to cables
- Sheathing is reusable and resistant to most chemicals
- Spiralwrap is U.L. Recognized



<b>MATERIAL</b>	Polytetrafluoroethylene -Teflon (PTFE)
<b>Flammability</b>	Non-Flammable
<b>Operating Temperature</b>	-449°F to +500°F (-267°C to +260°C)



PART NO.	TYPE	Diameter (D) in. (mm)	Wall Thickness (WT) in. (mm)	Pitch in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Color	Pkg. Qty.
1P9C*	1P	0.13 (3.18)	0.020 (0.51)	0.19 (4.75)	0.06 (1.6)	0.50 (12.7)	Natural	100 ft
2P9C*	2P	0.25 (6.35)	0.030 (0.76)	0.38 (9.53)	0.18 (4.75)	2.00 (50.8)	Natural	100 ft
2.5P9C*	2.5P	0.38 (9.53)	0.030 (0.76)	0.44 (11.13)	0.31 (7.92)	2.50 (63.5)	Natural	100 ft
3P9C*	3P	0.50 (12.7)	0.030 (0.76)	0.50 (12.7)	0.38 (9.52)	3.00 (76.2)	Natural	100 ft
4P9C*	4P	0.75 (19.05)	0.032 (0.81)	0.75 (19.05)	0.50 (12.7)	4.00 (102.0)	Natural	100 ft
5P9C*	5P	1.00 (25.4)	0.040 (1.02)	1.00 (25.4)	0.75 (19.1)	5.00 (127.0)	Natural	100 ft

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

\*This product meets UL standards. Please see appendix for specific file numbers.



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## No compromises when it comes to selecting flexible wire and cable protection.

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### Split Loom - General Purpose

#### Convolved Tubing in PA6

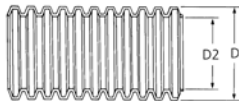
Convolved tubing provides an efficient method of routing and protecting wire harness assemblies, while reducing the chance of installation damage. It also can serve to protect valuable wiring circuits. HellermannTyton's convolved tubing offers excellent protection against automotive fluids, vibration wear, water, snow, ice, and the effects of heat or cold on cables and wires. Available in standard, bulk, and dispenser box packaging. Material is slit.

#### Features and Benefits

- Durable tubing provides protection of wire harness from friction, vibration, fraying and puncture.
- Tubing protects cables and wires against automotive fluids and vibration wear.
- Weather resistant material provides protection against water, snow, ice, and the effects of heat or cold.
- Nylon material is formulated to withstand high temperatures.
- Lateral slit allows fast and easy insertion of wires.



<b>MATERIAL</b>	Polyamide 6 (PA6)
<b>Operating Temperature</b>	-40°F to +300°F (-40°C to +149°C)
<b>Flammability</b>	UL 94 HB



PART NO.	TYPE	Nominal Dia. in. (mm)	Diameter (D) in. (mm)	Diameter (D2) in. (mm)	Wall Thickness (WT) in. (mm)	Pkg. Qty. Feet
CTN140STD	CTN140	0.25 (6.4)	0.40 (10.1)	0.28 (7.0)	0.004 (0.10)	3200
CTN140		0.25 (6.4)	0.40 (10.1)	0.28 (7.0)	0.004 (0.10)	28000
CTN380STD	CTN380	0.38 (9.5)	0.53 (13.4)	0.38 (9.7)	0.005 (0.13)	1900
CTN380		0.38 (9.5)	0.53 (13.4)	0.38 (9.7)	0.005 (0.13)	15000
CTN120STD	CTN120	0.50 (12.7)	0.70 (17.8)	0.52 (13.1)	0.005 (0.13)	1100
CTN120		0.50 (12.7)	0.70 (17.8)	0.52 (13.1)	0.005 (0.13)	8500
169-60024	CTN580 UNSLIT	0.63 (15.9)	0.84 (21.3)	0.64 (16.2)	0.005 (0.13)	700
CTN580STD	CTN580	0.63 (15.9)	0.84 (21.3)	0.64 (16.2)	0.005 (0.13)	800
CTN340STD	CTN340	0.75 (19.1)	0.99 (25.1)	0.76 (19.3)	0.005 (0.13)	550
CTN340		0.75 (19.1)	0.99 (25.1)	0.76 (19.3)	0.005 (0.13)	4200
CTN10STD	CTN10	1.00 (25.4)	1.32 (33.5)	1.06 (26.9)	0.005 (0.15)	300
CTN10		1.00 (25.4)	1.32 (33.5)	1.06 (26.9)	0.005 (0.15)	2250
CTN1140STD	CTN1140	1.25 (31.8)	1.50 (38.1)	1.26 (31.9)	0.006 (0.15)	250
CTN1140		1.25 (31.8)	1.50 (38.1)	1.26 (31.9)	0.006 (0.15)	1800
CTN1120STD	CTN1120	1.50 (38.1)	1.95 (49.5)	1.65 (41.8)	0.006 (0.15)	150
CTN1120		1.50 (38.1)	1.95 (49.5)	1.65 (41.8)	0.006 (0.15)	1000
CTN20STD	CTN20	2.00 (50.8)	2.39 (60.7)	2.04 (51.8)	0.011 (0.28)	100

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Material is slit unless noted in Type column.

# Routing, Protection and Insulation

## Convoluted Tubing

### Split Loom - General Purpose

#### Convoluting Tubing in PA6 - Dispenser Boxes

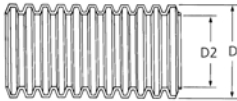
Convoluted tubing provides an efficient method of routing and protecting wire harness assemblies, while reducing the chance of installation damage. It also can serve to protect valuable wiring circuits. HellermannTyton's convoluted tubing offers excellent protection against automotive fluids, vibration wear, water, snow, ice, and the effects of heat or cold on cables and wires. Available in standard, bulk, and dispenser box packaging. Material is slit.

#### Features and Benefits

- Durable tubing provides protection of wire harness from friction, vibration, fraying and puncture.
- Tubing protects cables and wires against automotive fluids and vibration wear.
- Weather resistant material provides protection against water, snow, ice, and the effects of heat or cold.
- Nylon material is formulated to withstand high temperatures.
- Lateral slit allows fast and easy insertion of wires.



<b>MATERIAL</b>	Polyamide 6 (PA6)
<b>Operating Temperature</b>	-40°F to +300°F (-40°C to +149°C)
<b>Flammability</b>	UL 94 HB



PART NO.	TYPE	Nominal Dia. in. (mm)	Diameter (D) in. (mm)	Diameter (D2) in. (mm)	Wall Thickness (WT) in. (mm)	Pkg. Qty. Feet
169-60022	CTN140	0.25 (6.4)	0.40 (10.1)	0.28 (7.0)	0.004 (0.10)	100
169-60018	CTN380	0.38 (9.5)	0.53 (13.4)	0.38 (9.7)	0.005 (0.13)	100
169-60019	CTN120	0.50 (12.7)	0.70 (17.8)	0.52 (13.1)	0.005 (0.13)	100
169-60020	CTN340	0.75 (19.1)	0.99 (25.1)	0.76 (19.3)	0.005 (0.13)	100
169-60021	CTN10	1.00 (25.4)	1.32 (33.5)	1.06 (26.9)	0.006 (0.15)	50

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Material is slit unless noted in Type column.



### Split Loom - General Purpose

#### Convolved Tubing in PE

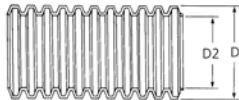
Convolved tubing provides an efficient method of routing and protecting wire harness assemblies, while reducing the chance of installation damage. It also can serve to protect valuable wiring circuits. HellermannTyton's convolved tubing offers excellent protection against automotive fluids, vibration wear, water, snow, ice, and the effects of heat and cold on cables and wires. Available in standard and bulk packaging. Also available in colors.

#### Features and Benefits

- Split side is ideal for applications where braided tubing or spiral wrap may be difficult to install.
- Tubing provides full coverage where spiral wrap or other coverings may not be suitable.
- Tubing offers excellent protection against automotive fluids, vibration wear, water, snow, ice, and the effects of heat and cold on cables and wires.



<b>MATERIAL</b>	Polyethylene (PE)
<b>Operating Temperature</b>	-40°F to +199°F (-40°C to +93°C)
<b>Flammability</b>	UL 94 V2



PART NO.	TYPE	Nominal Dia. in. (mm)	Diameter (D) in. (mm)	Diameter (D2) in. (mm)	Wall Thickness (WT) in. (mm)	Pkg. Qty. Feet
CTP140STD	CTP140	0.25 (6.4)	0.40 (10.1)	0.28 (7.0)	0.004 (0.10)	3200
CTP140		0.25 (6.4)	0.40 (10.1)	0.28 (7.0)	0.004 (0.10)	25000
CTP380STD	CTP380	0.38 (9.5)	0.53 (13.4)	0.38 (9.7)	0.005 (0.13)	1900
CTP380		0.38 (9.5)	0.53 (13.4)	0.38 (9.7)	0.005 (0.13)	15000
CTP120STD	CTP120	0.50 (12.7)	0.70 (17.8)	0.52 (13.1)	0.005 (0.13)	1100
CTP120		0.50 (12.7)	0.70 (17.8)	0.52 (13.1)	0.005 (0.13)	8500
CTP580STD	CTP580	0.63 (15.9)	0.84 (21.3)	0.64 (16.2)	0.005 (0.13)	800
CTP580		0.63 (15.9)	0.84 (21.3)	0.64 (16.2)	0.005 (0.13)	5500
CTP340STD	CTP340	0.75 (19.1)	0.99 (25.1)	0.76 (19.3)	0.005 (0.13)	550
CTP340		0.75 (19.1)	0.99 (25.1)	0.76 (19.3)	0.005 (0.13)	4200
CTP10STD	CTP10	1.00 (25.4)	1.32 (33.5)	1.06 (26.9)	0.005 (0.13)	300
CTP10		1.00 (25.4)	1.32 (33.5)	1.06 (26.9)	0.005 (0.13)	2250
CTP1140STD	CTP1140	1.25 (31.8)	1.50 (38.1)	1.26 (31.9)	0.006 (0.15)	250
CTP1140		1.25 (31.8)	1.50 (38.1)	1.26 (31.9)	0.006 (0.15)	1800
CTP1120STD	CTP1120	1.50 (38.1)	1.95 (49.5)	1.65 (41.8)	0.006 (0.15)	150
CTP1120		1.50 (38.1)	1.95 (49.5)	1.65 (41.8)	0.006 (0.15)	1000
CTP20STD	CTP20	2.00 (50.8)	2.39 (60.7)	2.04 (51.8)	0.011 (0.28)	100

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

Standard tubing is slit. Unslit is available upon request, please contact HellermannTyton for precut length requirements. Colors are available dependent upon volume requirements.

# Routing, Protection and Insulation

## Convolved Tubing

### Split Loom - General Purpose

#### Convolved Tubing in PEUV

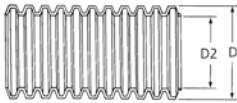
HellermannTyton's Convolved Tubing, also known as Split Loom Tubing, provides an efficient method of routing and protecting wire harness assemblies, while reducing the chance of installation damage. With a split down the side where you can insert your wire harness, you can easily install Convolved Tubing without removal of the entire assembly. It can also serve to protect valuable hoses and cables. Convolved tubing offers excellent protection against vibration wear, water, snow, ice and the effects of heat, cold and sunlight on cables and wires. The PEUV material provides additional protection against UV radiation for long-term outdoor use.

#### Features and Benefits

- Split side is ideal for applications where braided tubing or spiral wrap may be difficult to install.
- Tubing provides full coverage where spiral wrap or other coverings may not be suitable.
- Convolved profile provides resistance to crushing, impact, and abrasion.



<b>MATERIAL</b>	Polyethylene, UV-resistant (PEUV)
<b>Operating Temperature</b>	-40°F to +199°F (-40°C to +93°C)
<b>Flammability</b>	UL 94 HB



PART NO.	TYPE	Nominal Dia. in. (mm)	Diameter (D) in. (mm)	Diameter (D2) in. (mm)	Wall Thickness (WT) in. (mm)	Pkg. Qty. Feet
904-00358	CTPUV340	0.75 (19.1)	0.99 (25.1)	0.76 (19.3)	0.005 (0.13)	4200
904-00359	CTPUV10	1.00 (25.4)	1.32 (33.5)	1.06 (26.9)	0.006 (0.15)	2250
904-00357	CTPUV1120	1.50 (38.1)	1.65 (41.8)	1.65 (41.8)	0.006 (0.15)	1000
904-00921	CTPUV20	2.00 (50.8)	2.39 (60.7)	2.04 (51.8)	0.011 (0.28)	800

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

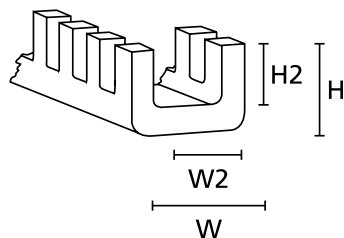
### Grommet Edging - General Purpose

#### Flexiform Edge Protection Grommet Strip - Polyamide 6 Grommet

HellermannTyton's Flexiform grommet is a unique, continuous wire protection product which fits easily in all shapes and sizes of holes without the aid of tools or adhesives. Since Flexiform can be cut to the right length with scissors, it eliminates waste, helping keep grommet stock to a minimum. HellermannTyton's Flexiform grommet can be used on any type of material including wood, steel, aluminum, plexiglass, and glass.

#### Features and Benefits

- Can be cut to length with scissors, eliminating waste and keeping stock to a minimum.



<b>MATERIAL</b>	Polyamide 6 (PA6)
<b>Color</b>	Natural
<b>Operating Temperature</b>	-76°F to +203°F (-60°C to +95°C)
<b>Flammability</b>	UL 94 HB



PART NO.	TYPE	Min. Panel Thickness in. (mm)	Max. Panel Thickness in. (mm)	Width (W) in. (mm)	Width (W2) in. (mm)	Height (H) in. (mm)	Height (H2) in. (mm)	Pkg. Qty.
FHA	G51NA	0.016 (0.40)	0.051 (1.30)	0.15 (3.9)	0.059 (1.5)	0.17 (4.3)	0.11 (2.7)	82 ft
FHB	G51NB	0.051 (1.30)	0.083 (2.10)	0.18 (4.6)	0.094 (2.4)	0.17 (4.3)	0.11 (2.7)	82 ft
FHC	G51NC	0.083 (2.10)	0.13 (3.30)	0.22 (5.7)	0.138 (3.5)	0.17 (4.3)	0.11 (2.7)	82 ft
FHD	G51ND	0.13 (3.30)	0.189 (4.80)	0.33 (8.4)	0.201 (5.1)	0.24 (6.2)	0.17 (4.3)	82 ft
FHE	G51NE	0.189 (4.80)	0.256 (6.50)	0.39 (9.9)	0.264 (6.7)	0.25 (6.4)	0.18 (4.5)	82 ft
FHF	G51NF	0.256 (6.50)	0.319 (8.10)	0.45 (11.4)	0.327 (8.3)	0.27 (6.8)	0.19 (4.8)	82 ft
FHG	G51NG	0.319 (8.10)	0.382 (9.70)	0.52 (13.2)	0.398 (10.1)	0.27 (6.8)	0.19 (4.8)	82 ft

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



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# Routing, Protection and Insulation

## Grommet Edging

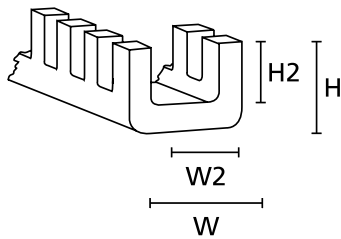
### Grommet Edging - General Purpose

#### Flexiform Edge Protection Grommet Strip - Polyethylene Grommet

HellermannTyton's Flexiform grommet is a unique, continuous wire protection product which fits easily in all shapes and sizes of holes without the aid of tools or adhesives. Since Flexiform can be cut to the right length with scissors, it eliminates waste, helping keep grommet stock to a minimum. HellermannTyton's Flexiform grommet can be used on any type of material including wood, steel, aluminum, plexiglass, and glass.

#### Features and Benefits

- Can be cut to length with scissors, eliminating waste and keeping stock to a minimum.



<b>MATERIAL</b>	Polyethylene (PE)
<b>Color</b>	Natural
<b>Operating Temperature</b>	-22°F to +176°F (-30°C to +80°C)
<b>Flammability</b>	UL 94 HB



PART NO.	TYPE	Min. Panel Thickness in. (mm)	Max. Panel Thickness in. (mm)	Width (W) in. (mm)	Width (W2) in. (mm)	Height (H) in. (mm)	Height (H2) in. (mm)	Pkg. Qty.
FPA	G51PA	0.016 (0.40)	0.051 (1.30)	0.15 (3.9)	0.059 (1.5)	0.17 (4.3)	0.11 (2.7)	82 ft
FPA	G51PAA	0.016 (0.40)	0.035 (0.90)	0.09 (2.3)	0.035 (0.9)	0.11 (2.7)	0.07 (1.8)	82 ft
FPB	G51PB	0.051 (1.30)	0.083 (2.10)	0.18 (4.6)	0.094 (2.4)	0.17 (4.3)	0.11 (2.7)	82 ft
FPC	G51PC	0.083 (2.10)	0.13 (3.30)	0.22 (5.7)	0.138 (3.5)	0.17 (4.3)	0.11 (2.7)	82 ft
FPD	G51PD	0.13 (3.30)	0.189 (4.80)	0.33 (8.4)	0.201 (5.1)	0.24 (6.2)	0.17 (4.3)	82 ft
FPE	G51PE	0.189 (4.80)	0.256 (6.50)	0.39 (9.9)	0.264 (6.7)	0.25 (6.4)	0.18 (4.5)	82 ft
FPF	G51PF	0.256 (6.50)	0.319 (8.10)	0.45 (11.4)	0.327 (8.3)	0.27 (6.8)	0.19 (4.8)	82 ft
FPG	G51PG	0.319 (8.10)	0.382 (9.70)	0.52 (13.2)	0.398 (10.1)	0.27 (6.8)	0.19 (4.8)	82 ft
FPH	G51PH	0.382 (9.70)	0.508 (12.90)	0.65 (16.4)	0.520 (13.2)	0.27 (6.8)	0.19 (4.8)	82 ft

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

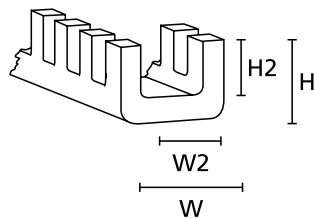
### Grommet Edging - Special Materials

#### Flexiform Edge Protection Grommet Strip - PTFE Grommet

HellermannTyton's Flexiform grommet is a unique, continuous wire protection product which fits easily in all shapes and sizes of holes without the aid of tools or adhesives. Since Flexiform can be cut to the right length with scissors, it eliminates waste, helping keep grommet stock to a minimum. HellermannTyton's Flexiform grommet can be used on any type of material including wood, steel, aluminum, plexiglass, and glass.

#### Features and Benefits

- Can be cut to length with scissors, eliminating waste and keeping stock to a minimum.



<b>MATERIAL</b>	Polytetrafluoroethylene -Teflon (PTFE)
<b>Color</b>	Natural
<b>Operating Temperature</b>	-76°F to +500°F (-60°C to +260°C)
<b>Flammability</b>	UL 94 V0



PART NO.	TYPE	Min. Panel Thickness in. (mm)	Max. Panel Thickness in. (mm)	Width (W) in. (mm)	Width (W2) in. (mm)	Height (H) in. (mm)	Height (H2) in. (mm)	Pkg. Qty.
FTA	G51TA	0.016 (0.40)	0.051 (1.30)	0.15 (3.9)	0.059 (1.5)	0.17 (4.3)	0.11 (2.7)	9.7 ft
FTB	G51TB	0.051 (1.30)	0.083 (2.10)	0.18 (4.6)	0.094 (2.4)	0.17 (4.3)	0.11 (2.7)	9.7 ft
251-30309	G51TC	0.083 (2.10)	0.13 (3.30)	0.22 (5.7)	0.138 (3.5)	0.17 (4.3)	0.11 (2.7)	9.7 ft
251-30409	G51TD	0.13 (3.30)	0.189 (4.80)	0.33 (8.4)	0.201 (5.1)	0.24 (6.2)	0.17 (4.3)	9.7 ft
251-30509	G51TE	0.189 (4.80)	0.256 (6.50)	0.39 (9.9)	0.264 (6.7)	0.25 (6.4)	0.18 (4.5)	9.7 ft
251-30609	G51TF	0.256 (6.50)	0.319 (8.10)	0.45 (11.4)	0.327 (8.3)	0.27 (6.8)	0.19 (4.8)	9.7 ft
251-30709	G51TG	0.319 (8.10)	0.382 (9.70)	0.52 (13.2)	0.398 (10.1)	0.27 (6.8)	0.19 (4.8)	9.7 ft
251-30809	G51TH	0.382 (9.70)	0.508 (12.90)	0.65 (16.4)	0.520 (13.2)	0.27 (6.8)	0.19 (4.8)	9.7 ft

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



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# Routing, Protection and Insulation

## Grommet Edging

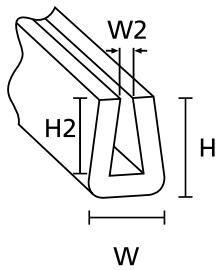
### Grommet Edging - Special Materials

#### Flexiform Edge Protection Grommet Strip - Polyvinylchloride Grommet

EdgeGuard is used to cover panel edging to protect cables, prevent chafing and provide an attractive finish. The EdgeGuard is manufactured from a flexible PVC compound ensuring ease of use.

#### Features and Benefits

- Fits in holes of all shapes and sizes without the aid of tools or adhesives, making installation easy.
- Easily cut to the right length with scissors, thus reducing stock and eliminating waste.
- Can be used on any type of material including wood, steel, aluminum, plexiglass and glass, ensuring flexibility of application.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Color</b>	Black
<b>Operating Temperature</b>	-85°F to +221°F (-65°C to +105°C)
<b>Flammability</b>	UL 94 HB



PART NO.	TYPE	Min. Panel Thickness in. (mm)	Max. Panel Thickness in. (mm)	Width (W) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Height (H) in. (mm)	Height (H2) in. (mm)	Pkg. Qty.
SM1BK75MT	SM1	0.039 (1.00)	0.079 (2.00)	0.20 (5.0)	0.039 (1.0)	0.07 (1.8)	0.165 (4.2)	0.25 (6.3)	0.19 (4.9)	246.1 ft

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

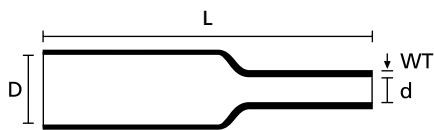
### Non-Adhesive 3 to 1 Shrink Ratio

#### TFN31 Basic Kit Non-Adhesive Thin Wall

The TFN31 basic kit contains an assortment of black 3 to 1 tubing in a variety of diameter sizes and lengths. Heat shrink kits are a convenient solution for “on-the-job” projects. This 3 to 1 shrink ratio tubing features a flexible, thin wall to cover a wide range of components, sizes and shapes. The polyolefin material has a higher operating temperature range than general-use heat shrink tubing.

#### Features and Benefits

- The basic kit contains 220 pieces of black polyolefin heat shrink tubing in assorted diameter sizes and lengths.
- The 3 to 1 shrink ratio covers a wide range of components, sizes and shapes.
- Material is self-extinguishing, for use in applications in which non-flammable materials are required.
- Case included for easy storage and transport.



<b>MATERIAL</b>	Polyolefin, cross-linked (PO-X)
<b>Shrink Ratio</b>	3:1
<b>Longitudinal Change After Shrinkage</b>	+5 %/-10 % max.
<b>Min. Shrink Temperature</b>	+194 °F (+90 °C)
<b>Operating Temperature</b>	-67°F to +275°F (-55°C to +135°C)
<b>Dielectric Strength</b>	20 kV/mm according to ASTM D 2671
<b>Flammability</b>	Self-Extinguishing



PART NO.	TYPE	Comp.	Trade Size	Supplied Ø (D) in. (mm)	Recovered Ø (d) in. (mm)	Wall Thickness (WT) in. (mm)	Length (L) in. (mm)	Color	Number of Tubes
380-03001	ShrinkKit 321 Basic	1	1/16	0.06 (1.5)	0.02 (0.5)	0.018 (0.45)	1.38 (35.0)	Black	50
		2	1/4	0.24 (6.0)	0.08 (2.0)	0.028 (0.70)	1.38 (35.0)	Black	30
		3	1/8	0.12 (3.0)	0.04 (1.0)	0.022 (0.55)	1.38 (35.0)	Black	25
		4	1/4	0.24 (6.0)	0.08 (2.0)	0.028 (0.70)	1.38 (35.0)	Black	15
		5	1/4	0.24 (6.0)	0.08 (2.0)	0.028 (0.70)	1.38 (35.0)	Black	15
		6	1/8	0.12 (3.0)	0.04 (1.0)	0.022 (0.55)	1.38 (35.0)	Black	25
		7	1/16	0.06 (1.5)	0.02 (0.5)	0.018 (0.45)	1.38 (35.0)	Black	50
		8	1/2	0.47 (12.0)	0.16 (4.0)	0.028 (0.70)	3.15 (80.0)	Black	5
		9	3/4	0.71 (18.0)	0.24 (6.0)	0.031 (0.80)	3.15 (80.0)	Black	5

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



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# Routing, Protection and Insulation

## Heat Shrink Tubing

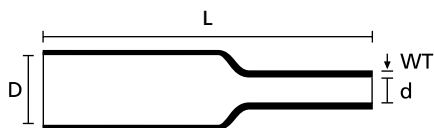
### Non-Adhesive 3 to 1 Shrink Ratio

#### TFN31 Universal Kit Non-Adhesive Thin Wall

The TFN31 universal kit contains an assortment of 3 to 1 tubing in different diameter sizes, colors and lengths. Heat shrink kits are a convenient solution for “on-the-job” projects. This 3 to 1 shrink ratio tubing features a flexible, thin wall to cover a wide range of components, sizes and shapes. The polyolefin material has a higher operating temperature range than general-use heat shrink tubing.

#### Features and Benefits

- The universal kit contains 177 pieces of tubing in assorted colors, diameter sizes and lengths.
- The 3 to 1 shrink ratio covers a wide range of components, sizes and shapes.
- Material is self-extinguishing, for use in applications in which non-flammable materials are required.
- Case included for easy storage and transport.
- Each individual bag contains 10 pieces cut to 6" lengths.



<b>MATERIAL</b>	Polyolefin, cross-linked (PO-X)
<b>Shrink Ratio</b>	3:1
<b>Longitudinal Change After Shrinkage</b>	+5 %/-10 % max.
<b>Min. Shrink Temperature</b>	+194 °F (+90 °C)
<b>Operating Temperature</b>	-67°F to +275°F (-55°C to +135°C)
<b>Dielectric Strength</b>	20 kV/mm according to ASTM D 2671
<b>Flammability</b>	Self-Extinguishing



PART NO.	TYPE	Comp.	Trade Size in.	Supplied Diameter (D) in. (mm)	Recovered Diameter (D) in. (mm)	Wall Thickness (WT) in. (mm)	Length (L) in. (mm)	Color	Number of Tubes
380-03005	321-KIT-ASST	1	1/2	0.47 (12.0)	0.16 (4.0)	0.028 (0.75)	1.38 (35.0)	Black	12
		2	1/2	0.47 (12.0)	0.16 (4.0)	0.028 (0.70)	3.15 (80.0)	Black	2
			1/2	0.47 (12.0)	0.16 (4.0)	0.028 (0.70)	3.15 (80.0)	Blue	2
			1/2	0.47 (12.0)	0.16 (4.0)	0.028 (0.70)	3.15 (80.0)	Red	2
			1/4	0.24 (6.0)	0.08 (2.0)	0.028 (0.70)	3.15 (80.0)	Blue	5
			1/4	0.24 (6.0)	0.08 (2.0)	0.028 (0.70)	3.15 (80.0)	Red	5
			1/4	0.24 (6.0)	0.08 (2.0)	0.028 (0.70)	3.15 (80.0)	White	5
		3	1/4	0.24 (6.0)	0.08 (2.0)	0.028 (0.70)	1.38 (35.0)	Blue	10
			1/4	0.24 (6.0)	0.08 (2.0)	0.028 (0.70)	1.38 (35.0)	Red	10
			1/4	0.24 (6.0)	0.08 (2.0)	0.028 (0.70)	1.38 (35.0)	White	10
		4	3/8	0.35 (9.0)	0.12 (3.0)	0.028 (0.70)	1.38 (35.0)	Green-Yellow	15
		5	3/8	0.35 (9.0)	0.12 (3.0)	0.028 (0.70)	1.38 (35.0)	Black	20
		6	1/8	0.12 (3.0)	0.04 (1.0)	0.022 (0.55)	1.38 (35.0)	Black	10
			1/8	0.12 (3.0)	0.04 (1.0)	0.022 (0.55)	1.38 (35.0)	Blue	10
			1/8	0.12 (3.0)	0.04 (1.0)	0.022 (0.55)	1.38 (35.0)	Red	10
			1/8	0.12 (3.0)	0.04 (1.0)	0.022 (0.55)	1.38 (35.0)	White	10
		7	1/4	0.24 (6.0)	0.08 (2.0)	0.028 (0.70)	1.38 (35.0)	Black	20
			1/4	0.24 (6.0)	0.08 (2.0)	0.028 (0.70)	1.38 (35.0)	Green-Yellow	10
		8	3/4	0.71 (18.0)	0.24 (6.0)	0.031 (0.80)	6.30 (160.0)	Black	3
			3/4	0.71 (18.0)	0.24 (6.0)	0.031 (0.80)	6.30 (160.0)	Green-Yellow	3
			3/4	0.71 (18.0)	0.24 (6.0)	0.031 (0.80)	6.30 (160.0)	White	3

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



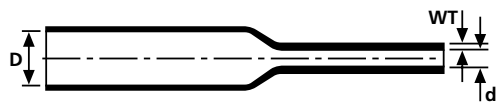
### Non-Adhesive 3 to 1 Shrink Ratio

#### TFN31 HIS-3 Bags Non-Adhesive Thin Wall

TFN31 HIS-3 bags are packaged in smaller lengths, in a convenient bag for small projects and easy merchandising. TFN31 series tubing features a flexible, thin wall and highly flame retardant material with a higher operating temperature range than general-use heat shrink tubing. The 3 to 1 shrink ratio accommodates a variety of component shapes and sizes.

#### Features and Benefits

- Thin wall 3 to 1 shrink material is extremely flexible and accommodates a wide range of component shapes and diameters.
- Meets UL224 VW-1 specifications for flame retardancy, for use in high heat applications (excludes clear tubing).
- Polyolefin material provides excellent insulation and mechanical strength with good resistance to solvents, oils and fuels.
- Packaged in a printed plastic bag with hang hole for easy merchandising.



<b>MATERIAL</b>	Polyolefin, cross-linked (PO-X)
<b>Shrink Ratio</b>	3:1
<b>Longitudinal Change After Shrinkage</b>	-5 % max.
<b>Min. Shrink Temperature</b>	+212 °F (+100 °C)
<b>Operating Temperature</b>	-67°F to +275°F (-55°C to +135°C)
<b>Dielectric Strength</b>	20 kV/mm according to ASTM D 150
<b>Flammability</b>	UL 224 VW-1 (except clear)



PART NO.	TYPE	Trade Size	Supplied Ø (D) in. (mm)	Recovered Ø (d) in. (mm)	Wall Thickness (WT) in. (mm)	Color	Pkg. Qty.
308-30320*	HIS-3-BAG 3/1 BK	1/8	0.13 (3.2)	0.039 (1.0)	0.022 (0.55)	Black	10
308-30321*	HIS-3-BAG 3/1 CL	1/8	0.13 (3.2)	0.039 (1.0)	0.022 (0.55)	Clear	10
308-30420	HIS-3-BAG 4.5/1.5 BK	3/16	0.19 (4.8)	0.059 (1.5)	0.024 (0.60)	Black	10
308-30421	HIS-3-BAG 4.5/1.5 CL	3/16	0.19 (4.8)	0.059 (1.5)	0.024 (0.60)	Clear	10
308-30620*	HIS-3-BAG 6/2 BK	1/4	0.25 (6.4)	0.079 (2.0)	0.026 (0.65)	Black	10
308-30621*	HIS-3-BAG 6/2 CL	1/4	0.25 (6.4)	0.079 (2.0)	0.026 (0.65)	Clear	10
308-30920	HIS-3-BAG 9/3 BK	3/8	0.38 (9.5)	0.118 (3.0)	0.029 (0.75)	Black	10
308-30921	HIS-3-BAG 9/3 CL	3/8	0.38 (9.5)	0.118 (3.0)	0.029 (0.75)	Clear	10
308-31220*	HIS-3-BAG 12/4 BK	1/2	0.50 (12.7)	0.157 (4.0)	0.031 (0.80)	Black	10
308-31221*	HIS-3-BAG 12/4 CL	1/2	0.50 (12.7)	0.157 (4.0)	0.031 (0.80)	Clear	10

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 \*This product meets UL standards. Please see appendix for specific file numbers.



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# Routing, Protection and Insulation

## Heat Shrink Tubing

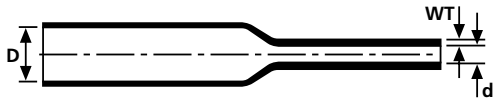
### Non-Adhesive 3 to 1 Shrink Ratio

#### TFN31 Reels Non-Adhesive Thin Wall

TFN31 heat shrink tubing has a flexible, thin wall and a 3 to 1 shrink ratio to accommodate a variety of component shapes and diameters. Made of a highly flame retardant material, this tubing offers abrasion and insulation protection for wires and cables. The polyolefin material also offers good resistance to solvents, oils and fuels.

#### Features and Benefits

- Thin wall, flexible 3 to 1 shrink ratio material accommodates a wide range of component shapes and diameters.
- Meets UL224 VW-1 specifications, making it ideal for high heat applications.
- Polyolefin material provides excellent insulation and mechanical strength with good resistance to solvents, oils and fuels.
- For use in applications up to 600 volts.



<b>MATERIAL</b>	Polyolefin, cross-linked (PO-X)
<b>ShrinkRatio</b>	3:1
<b>Longitudinal Change After Shrinkage</b>	+/-5 %
<b>Min. Shrink Temperature</b>	+212 °F (+100 °C)
<b>Operating Temperature</b>	-67°F to +275°F (-55°C to +135°C)
<b>Dielectric Strength</b>	>20 kV/mm
<b>Flammability</b>	UL 224 VW-1

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PART NO.	TYPE	Trade Size	Supplied Ø (D) in. (mm)	Recovered Ø (d) in. (mm)	Wall Thickness (WT) in. (mm)	Color	Pkg. Qty.
333-41500*	TFN31 3/1	1/8	0.125 (3.2)	0.063 (1.0)	0.022 (0.6)	Black	1000 ft
333-41501*	TFN31 6/2	1/4	0.250 (6.4)	0.079 (2.0)	0.026 (0.7)	Black	1000 ft
333-41502*	TFN31 9/3	3/8	0.375 (9.5)	0.118 (3.0)	0.029 (0.8)	Black	500 ft
333-41503*	TFN31 12/4	1/2	0.500 (12.7)	0.157 (4.0)	0.031 (0.8)	Black	300 ft
333-41504*	TFN31 18/6	3/4	0.750 (19.1)	0.276 (6.0)	0.035 (0.9)	Black	200 ft
333-41505*	TFN31 24/8	1	1.000 (25.4)	0.315 (8.0)	0.047 (1.2)	Black	200 ft
333-41506*	TFN31 39/13	1-1/2	1.500 (39.0)	0.512 (13.0)	0.049 (1.3)	Black	100 ft

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 \*This product meets UL standards. Please see appendix for specific file numbers.



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### Non-Adhesive 3 to 1 Shrink Ratio

#### TFN31 Sticks Non-Adhesive Thin Wall

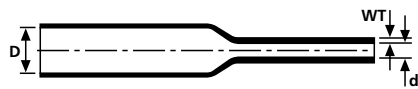
TFN31 heat shrink tubing has a flexible, thin wall and a 3 to 1 shrink ratio to accommodate a variety of component shapes and diameters. Made of a highly flame retardant material, this tubing offers abrasion and insulation protection for wires and cables. The polyolefin material also offers good resistance to solvents, oils and fuels.

#### Features and Benefits

- Thin wall 3 to 1 shrink material is extremely flexible and accommodates a wide range of component shapes and diameters.
- Meets UL224 VW-1 specifications, making it ideal for high heat applications.
- Polyolefin material provides excellent insulation and mechanical strength with good resistance to solvents, oils and fuels.
- 4-foot sticks are individually tagged for retail.
- For use in applications up to 600 volts.



<b>MATERIAL</b>	Polyolefin, cross-linked (PO-X)
<b>Shrink Ratio</b>	3:1
<b>Longitudinal Change After Shrinkage</b>	+/-5 %
<b>Min. Shrink Temperature</b>	+212 °F (+100 °C)
<b>Operating Temperature</b>	-67°F to +275°F (-55°C to +135°C)
<b>Dielectric Strength</b>	>20 kV/mm
<b>Flammability</b>	UL 224 VW-1



PART NO.	TYPE	Trade Size	Supplied Ø (D) in. (mm)	Recovered Ø (d) in. (mm)	Wall Thickness (WT) in. (mm)	Color	Pkg. Qty.
333-41507*	TFN31-ST-1.5/0.5	1/16	0.063 (1.5)	0.020 (0.5)	0.018 (0.5)	Black	20
333-41508*	TFN31-ST-3/1	1/8	0.125 (3.2)	0.063 (1.0)	0.022 (0.6)	Black	20
333-41509*	TFN31-ST-4.5/1.5	3/16	0.188 (4.8)	0.059 (1.5)	0.024 (0.6)	Black	20
333-41510*	TFN31-ST-6/2	1/4	0.250 (6.4)	0.079 (2.0)	0.026 (0.7)	Black	15
333-41511*	TFN31-ST-9/3	3/8	0.375 (9.5)	0.118 (3.0)	0.029 (0.8)	Black	15
333-41512*	TFN31-ST-12/4	1/2	0.500 (12.7)	0.157 (4.0)	0.031 (0.8)	Black	10
333-41513*	TFN31-ST-18/6	3/4	0.750 (19.1)	0.236 (6.0)	0.035 (0.9)	Black	5
333-41514*	TFN31-ST-24/8	1	1.000 (25.4)	0.315 (8.0)	0.047 (1.2)	Black	5

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
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# Routing, Protection and Insulation

## Heat Shrink Tubing

### Adhesive Lined Thin Wall

#### TAN33 Sticks Adhesive-Lined Thin Wall

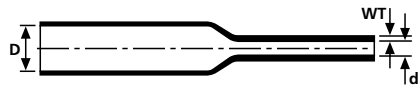
TAN33 is a flexible, thin wall adhesive-lined heat shrink tubing with highly flame retardant properties. The 3 to 1 shrink ratio accommodates a wide range of component shapes and diameters. The adhesive lining begins to activate as the temperature reaches 176° F (80° C), to create a strong seal against moisture and humidity.

#### Features and Benefits

- Adhesive lining provides an excellent seal against moisture and humidity.
- Thin exterior wall is very flexible, while providing superior insulation of cables and components.
- 3 to 1 shrink ratio accommodates a wide range of component shapes and diameters.
- Meets UL224 VW-1 specifications, making it ideal for high heat applications (excludes clear tubing).
- Polyolefin material provides mechanical strength with good resistance to solvents, oils and fuels.
- 4-foot sticks are individually tagged and come in a retail box.
- For applications up to 600 volts.



<b>MATERIAL</b>	Polyolefin, cross-linked (PO-X)
<b>Shrink Ratio</b>	3:1
<b>Longitudinal Change After Shrinkage</b>	10 % max.
<b>Min. Shrink Temperature</b>	+230 °F (+110 °C)
<b>Softening Point Adhesive</b>	+176°F (+80°C)
<b>Operating Temperature</b>	-67°F to +257°F (-55°C to +125°C)
<b>Flammability</b>	UL 224 VW-1



PART NO.	TYPE	Trade Size	Supplied Ø (D) in. (mm)	Recovered Ø (d) in. (mm)	Wall Thickness (WT) in. (mm)	Color	Pkg. Qty.
318-60150*	TAN33-ST-3/1 BK	1/8	0.11 (3.0)	0.039 (1.0)	0.039 (1.00)	Black	20
318-60151*	TAN33-ST-4.8/1.5 BK	3/16	0.19 (4.8)	0.059 (1.5)	0.039 (1.00)	Black	20
318-60152*	TAN33-ST-6/2 BK	1/4	0.24 (6.0)	0.079 (2.0)	0.039 (1.00)	Black	15
318-60153*	TAN33-ST-9/3 BK	3/8	0.35 (9.0)	0.112 (3.0)	0.056 (1.40)	Black	15
318-60154*	TAN33-ST-12/4 BK	1/2	0.47 (12.0)	0.158 (4.0)	0.063 (1.60)	Black	10
318-60155*	TAN33-ST-19/6 BK	3/4	0.75 (19.0)	0.236 (6.0)	0.085 (2.15)	Black	15
318-60156*	TAN33-ST-24/8 BK	1	0.95 (24.0)	0.315 (8.0)	0.094 (2.40)	Black	10
318-60158*	TAN33-ST-40/13 BK	1-1/2	1.58 (40.0)	0.512 (13.0)	0.094 (2.40)	Black	6

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

\*This product meets UL standards. Please see appendix for specific file numbers.



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### Non-Adhesive 2 to 1 Shrink Ratio

#### TFN21 Reels Non-Adhesive Thin Wall

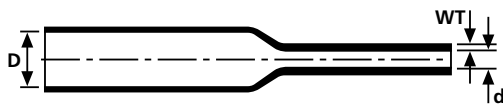
TFN21 is a highly flexible thin wall heat shrink tubing with a 2 to 1 shrink ratio and excellent flame retardant properties. In addition to providing insulation and abrasion protection for wires and cables, the polyolefin material also offers resistance to oils, solvents and chemicals.

#### Features and Benefits

- Thin, 2 to 1 shrink ratio tubing provides insulation and abrasion protection for wires and cables.
- Flammability rating of UL224 VW-1 for use in applications requiring the highest degree of flame protection (excludes clear tubing).
- Flexible-yet-durable material resists most common oils, chemicals and fluids.
- Offered in a variety of diameters and colors for identifying and marking wires and cables.
- Available in mini reels or bulk reels for small to large volume applications.
- For use in applications up to 600 volts.



<b>MATERIAL</b>	Polyolefin, cross-linked (PO-X)
<b>Shrink Ratio</b>	2:1
<b>Longitudinal Change After Shrinkage</b>	+/-5 %
<b>Min. Shrink Temperature</b>	+212 °F (+100 °C)
<b>Operating Temperature</b>	-67°F to +275°F (-55°C to +135°C)
<b>Dielectric Strength</b>	>20kV/mm according to ASTM D 150
<b>Flammability</b>	UL 224 VW-1 (except clear)



PART NO.	TYPE	Trade Size	Supplied Ø (D) in. (mm)	Recovered Ø (d) in. (mm)	Wall Thickness (WT) in. (mm)	Color	Pkg. Qty.
309-60197*	TFN21 1.2/0.6	3/64	0.047 (1.2)	0.024 (0.6)	0.016 (0.4)	Black	1000 ft
309-60108*	TFN21 1.6/0.8	1/16	0.063 (1.6)	0.032 (0.8)	0.016 (0.4)	Black	100 ft
309-60109*		1/16	0.063 (1.6)	0.032 (0.8)	0.016 (0.4)	Black	1000 ft
309-60281*		1/16	0.063 (1.6)	0.032 (0.8)	0.016 (0.4)	Blue	100 ft
309-60107*		1/16	0.063 (1.6)	0.032 (0.8)	0.016 (0.4)	Clear	100 ft
309-60284*		1/16	0.063 (1.6)	0.032 (0.8)	0.016 (0.4)	Green	100 ft
309-60280*		1/16	0.063 (1.6)	0.032 (0.8)	0.016 (0.4)	Red	100 ft
309-60282*		1/16	0.063 (1.6)	0.032 (0.8)	0.016 (0.4)	White	100 ft
309-60283*		1/16	0.063 (1.6)	0.032 (0.8)	0.016 (0.4)	Yellow	100 ft
309-65112*		TFN21 2.4/1.2	3/32	0.094 (2.4)	0.047 (1.2)	0.019 (0.5)	Black
309-60118*	3/32		0.094 (2.4)	0.047 (1.2)	0.019 (0.5)	Black	1000 ft
309-60286*	3/32		0.094 (2.4)	0.047 (1.2)	0.019 (0.5)	Blue	100 ft
309-65111*	3/32		0.094 (2.4)	0.047 (1.2)	0.019 (0.5)	Clear	100 ft
309-60289*	3/32		0.094 (2.4)	0.047 (1.2)	0.019 (0.5)	Green	100 ft
309-60285*	3/32		0.094 (2.4)	0.047 (1.2)	0.019 (0.5)	Red	100 ft
309-60287*	3/32		0.094 (2.4)	0.047 (1.2)	0.019 (0.5)	White	100 ft
309-60288*	3/32		0.094 (2.4)	0.047 (1.2)	0.019 (0.5)	Yellow	100 ft

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

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# Routing, Protection and Insulation

## Heat Shrink Tubing

### Non-Adhesive 2 to 1 Shrink Ratio

#### TFN21 Reels Non-Adhesive Thin Wall

PART NO.	TYPE	Trade Size	Supplied Ø (D) in. (mm)	Recovered Ø (d) in. (mm)	Wall Thickness (WT) in. (mm)	Color	Pkg. Qty.
309-60290*	TFN21 3.2/1.6	1/8	0.125 (3.2)	0.063 (1.6)	0.019 (0.5)	Black	100 ft
309-65123*		1/8	0.125 (3.2)	0.063 (1.6)	0.019 (0.5)	Black	1000 ft
309-65122*		1/8	0.125 (3.2)	0.063 (1.6)	0.019 (0.5)	Blue	100 ft
309-65120*		1/8	0.125 (3.2)	0.063 (1.6)	0.019 (0.5)	Clear	100 ft
309-60293*		1/8	0.125 (3.2)	0.063 (1.6)	0.019 (0.5)	Green	100 ft
309-65121*		1/8	0.125 (3.2)	0.063 (1.6)	0.019 (0.5)	Red	100 ft
309-60291*		1/8	0.125 (3.2)	0.063 (1.6)	0.019 (0.5)	White	100 ft
309-60292*		1/8	0.125 (3.2)	0.063 (1.6)	0.019 (0.5)	Yellow	100 ft
309-60294*	TFN21 4.8/2.4	3/16	0.188 (4.8)	0.094 (2.4)	0.019 (0.5)	Black	50 ft
309-65133*		3/16	0.188 (4.8)	0.094 (2.4)	0.019 (0.5)	Black	1000 ft
309-65132*		3/16	0.188 (4.8)	0.094 (2.4)	0.019 (0.5)	Blue	50 ft
309-65130*		3/16	0.188 (4.8)	0.094 (2.4)	0.019 (0.5)	Clear	50 ft
309-60297*		3/16	0.188 (4.8)	0.094 (2.4)	0.019 (0.5)	Green	50 ft
309-65131*		3/16	0.188 (4.8)	0.094 (2.4)	0.019 (0.5)	Red	50 ft
309-60295*		3/16	0.188 (4.8)	0.094 (2.4)	0.019 (0.5)	White	50 ft
309-60296*		3/16	0.188 (4.8)	0.094 (2.4)	0.019 (0.5)	Yellow	50 ft
309-60298*	TFN21 6.4/3.2	1/4	0.250 (6.4)	0.125 (3.2)	0.022 (0.6)	Black	50 ft
309-65143*		1/4	0.250 (6.4)	0.125 (3.2)	0.022 (0.6)	Black	1000 ft
309-65142*		1/4	0.250 (6.4)	0.125 (3.2)	0.022 (0.6)	Blue	50 ft
309-65140*		1/4	0.250 (6.4)	0.125 (3.2)	0.022 (0.6)	Clear	50 ft
309-60301*		1/4	0.250 (6.4)	0.125 (3.2)	0.022 (0.6)	Green	50 ft
309-65141*		1/4	0.250 (6.4)	0.125 (3.2)	0.022 (0.6)	Red	50 ft
309-60299*		1/4	0.250 (6.4)	0.125 (3.2)	0.022 (0.6)	White	50 ft
309-60300*		1/4	0.250 (6.4)	0.125 (3.2)	0.022 (0.6)	Yellow	50 ft
309-60302*	TFN21 9.5/4.8	3/8	0.375 (9.5)	0.188 (4.8)	0.024 (0.6)	Black	50 ft
309-65153*		3/8	0.375 (9.5)	0.188 (4.8)	0.024 (0.6)	Black	500 ft
309-65152*		3/8	0.375 (9.5)	0.188 (4.8)	0.024 (0.6)	Blue	50 ft
309-65150*		3/8	0.375 (9.5)	0.188 (4.8)	0.024 (0.6)	Clear	50 ft
309-60305*		3/8	0.375 (9.5)	0.188 (4.8)	0.024 (0.6)	Green	50 ft
309-65151*		3/8	0.375 (9.5)	0.188 (4.8)	0.024 (0.6)	Red	50 ft
309-60303*		3/8	0.375 (9.5)	0.188 (4.8)	0.024 (0.6)	White	50 ft
309-60304*		3/8	0.375 (9.5)	0.188 (4.8)	0.024 (0.6)	Yellow	50 ft
309-60306*	TFN21 12.7/6.4	1/2	0.500 (12.7)	0.250 (6.4)	0.024 (0.6)	Black	25 ft
309-65163*		1/2	0.500 (12.7)	0.250 (6.4)	0.024 (0.6)	Black	300 ft
309-65162*		1/2	0.500 (12.7)	0.250 (6.4)	0.024 (0.6)	Blue	25 ft
309-65160*		1/2	0.500 (12.7)	0.250 (6.4)	0.024 (0.6)	Clear	25 ft
309-60309*		1/2	0.500 (12.7)	0.250 (6.4)	0.024 (0.6)	Green	25 ft
309-65161*		1/2	0.500 (12.7)	0.250 (6.4)	0.024 (0.6)	Red	25 ft
309-60307*		1/2	0.500 (12.7)	0.250 (6.4)	0.024 (0.6)	White	25 ft
309-60308*		1/2	0.500 (12.7)	0.250 (6.4)	0.024 (0.6)	Yellow	25 ft

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### Non-Adhesive 2 to 1 Shrink Ratio

#### TFN21 Reels Non-Adhesive Thin Wall

PART NO.	TYPE	Trade Size	Supplied Ø (D) in. (mm)	Recovered Ø (d) in. (mm)	Wall Thickness (WT) in. (mm)	Color	Pkg. Qty.
309-60310*	TFN21 16.0/8.0	5/8	0.630 (16.0)	0.315 (8.0)	0.027 (0.7)	Black	25 ft
309-60311*	TFN21 19.1/9.5	3/4	0.750 (19.1)	0.375 (9.5)	0.027 (0.7)	Black	25 ft
309-65173*		3/4	0.750 (19.1)	0.375 (9.5)	0.027 (0.7)	Black	200 ft
309-65172*		3/4	0.750 (19.1)	0.375 (9.5)	0.027 (0.7)	Blue	25 ft
309-65170*		3/4	0.750 (19.1)	0.375 (9.5)	0.027 (0.7)	Clear	25 ft
309-60314*		3/4	0.750 (19.1)	0.375 (9.5)	0.027 (0.7)	Green	25 ft
309-65171*		3/4	0.750 (19.1)	0.375 (9.5)	0.027 (0.7)	Red	25 ft
309-60312*		3/4	0.750 (19.1)	0.375 (9.5)	0.027 (0.7)	White	25 ft
309-60313*		3/4	0.750 (19.1)	0.375 (9.5)	0.027 (0.7)	Yellow	25 ft
309-60315*		TFN21 25.4/12.7	1	1.000 (25.4)	0.500 (12.7)	0.034 (0.9)	Black
309-65183*	1		1.000 (25.4)	0.500 (12.7)	0.034 (0.9)	Black	200 ft
309-65182*	1		1.000 (25.4)	0.500 (12.7)	0.034 (0.9)	Blue	25 ft
309-65180*	1		1.000 (25.4)	0.500 (12.7)	0.034 (0.9)	Clear	25 ft
309-60318*	1		1.000 (25.4)	0.500 (12.7)	0.034 (0.9)	Green	25 ft
309-65181*	1		1.000 (25.4)	0.500 (12.7)	0.034 (0.9)	Red	25 ft
309-60316*	1		1.000 (25.4)	0.500 (12.7)	0.034 (0.9)	White	25 ft
309-60317*	1		1.000 (25.4)	0.500 (12.7)	0.034 (0.9)	Yellow	25 ft
309-60319*	TFN21 31.8/16.0		1-1/4	1.250 (31.8)	0.625 (16.0)	0.039 (1.0)	Black
309-60322*		1-1/4	1.250 (31.8)	0.625 (16.0)	0.039 (1.0)	Blue	100 ft
309-60320*		1-1/4	1.250 (31.8)	0.625 (16.0)	0.039 (1.0)	Clear	100 ft
309-60325*		1-1/4	1.250 (31.8)	0.625 (16.0)	0.039 (1.0)	Green	100 ft
309-60321*		1-1/4	1.250 (31.8)	0.625 (16.0)	0.039 (1.0)	Red	100 ft
309-60323*		1-1/4	1.250 (31.8)	0.625 (16.0)	0.039 (1.0)	White	100 ft
309-60324*		1-1/4	1.250 (31.8)	0.625 (16.0)	0.039 (1.0)	Yellow	100 ft
309-65192*	TFN21 38.1/19.1	1-1/2	1.500 (38.1)	0.752 (19.1)	0.039 (1.0)	Black	100 ft
309-60328*		1-1/2	1.500 (38.1)	0.752 (19.1)	0.039 (1.0)	Blue	100 ft
309-60326*		1-1/2	1.500 (38.1)	0.752 (19.1)	0.039 (1.0)	Clear	100 ft
309-60331*		1-1/2	1.500 (38.1)	0.752 (19.1)	0.039 (1.0)	Green	100 ft
309-60327*		1-1/2	1.500 (38.1)	0.752 (19.1)	0.039 (1.0)	Red	100 ft
309-60329*		1-1/2	1.500 (38.1)	0.752 (19.1)	0.039 (1.0)	White	100 ft
309-60330*		1-1/2	1.500 (38.1)	0.752 (19.1)	0.039 (1.0)	Yellow	100 ft
309-60332*	TFN21 50.8/25.4	2	2.000 (50.8)	1.000 (25.4)	0.043 (1.1)	Black	100 ft
309-60335*		2	2.000 (50.8)	1.000 (25.4)	0.043 (1.1)	Blue	100 ft
309-60333*		2	2.000 (50.8)	1.000 (25.4)	0.043 (1.1)	Clear	100 ft
309-60338*		2	2.000 (50.8)	1.000 (25.4)	0.043 (1.1)	Green	100 ft
309-60334*		2	2.000 (50.8)	1.000 (25.4)	0.043 (1.1)	Red	100 ft
309-60336*		2	2.000 (50.8)	1.000 (25.4)	0.043 (1.1)	White	100 ft
309-60337*		2	2.000 (50.8)	1.000 (25.4)	0.043 (1.1)	Yellow	100 ft
309-65227*	TFN21 76.2/38.1	3	3.000 (76.2)	1.500 (38.1)	0.047 (1.2)	Black	50 ft
309-65237*	TFN21 102.0/50.8	4	4.000 (102.0)	2.000 (50.8)	0.053 (1.4)	Black	50 ft

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# Routing, Protection and Insulation

## Heat Shrink Tubing

### Non-Adhesive 2 to 1 Shrink Ratio

#### TFN21 Sticks Non-Adhesive Thin Wall

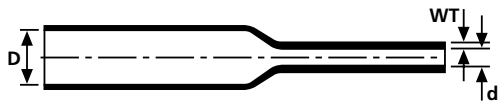
TFN21 is a highly flexible thin wall heat shrink tubing with a 2 to 1 shrink ratio and excellent flame retardant properties. In addition to providing insulation and abrasion protection for wires and cables, the polyolefin material also offers resistance to oils, solvents and chemicals.

#### Features and Benefits

- Thin, 2 to 1 shrink ratio tubing provides insulation and abrasion protection for wires and cables.
- Flammability rating of UL224 VW-1 for use in applications requiring the highest degree of flame protection (excludes clear tubing).
- Flexible-yet-durable material resists most common oils, chemicals and fluids.
- 4-foot sticks are individually tagged for retail.
- For use in applications up to 600 volts.



<b>MATERIAL</b>	Polyolefin, cross-linked (PO-X)
<b>Shrink Ratio</b>	2:1
<b>Longitudinal Change After Shrinkage</b>	+/- 5 %
<b>Min. Shrink Temperature</b>	+212 °F (+100 °C)
<b>Operating Temperature</b>	-67°F to +275°F (-55°C to +135°C)
<b>Dielectric Strength</b>	>20kV/mm according to ASTM D 150
<b>Flammability</b>	UL 224 VW-1 (except clear)



PART NO.	TYPE	Trade Size	Supplied Ø (D) in. (mm)	Recovered Ø (d) in. (mm)	Wall Thickness (WT) in. (mm)	Color	Pkg. Qty.
309-65101*	TFN21-ST 1.6/0.8	1/16	0.063 (1.6)	0.032 (0.8)	0.016 (0.4)	Black	20
309-65103*		1/16	0.063 (1.6)	0.032 (0.8)	0.016 (0.4)	Blue	20
309-65100*		1/16	0.063 (1.6)	0.032 (0.8)	0.016 (0.4)	Clear	20
309-65106*		1/16	0.063 (1.6)	0.032 (0.8)	0.016 (0.4)	Green	20
309-65102*		1/16	0.063 (1.6)	0.032 (0.8)	0.016 (0.4)	Red	20
309-65104*		1/16	0.063 (1.6)	0.032 (0.8)	0.016 (0.4)	White	20
309-65105*		1/16	0.063 (1.6)	0.032 (0.8)	0.016 (0.4)	Yellow	20
309-65110*	TFN21-ST 2.4/1.2	3/32	0.094 (2.4)	0.047 (1.2)	0.019 (0.5)	Black	20
309-65115*		3/32	0.094 (2.4)	0.047 (1.2)	0.019 (0.5)	Blue	20
309-65113*		3/32	0.094 (2.4)	0.047 (1.2)	0.019 (0.5)	Clear	20
309-65118*		3/32	0.094 (2.4)	0.047 (1.2)	0.019 (0.5)	Green	20
309-65114*		3/32	0.094 (2.4)	0.047 (1.2)	0.019 (0.5)	Red	20
309-65116*		3/32	0.094 (2.4)	0.047 (1.2)	0.019 (0.5)	White	20
309-65117*		3/32	0.094 (2.4)	0.047 (1.2)	0.019 (0.5)	Yellow	20

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### Non-Adhesive 2 to 1 Shrink Ratio

#### TFN21 Sticks Non-Adhesive Thin Wall

PART NO.	TYPE	Trade Size	Supplied Ø (D) in. (mm)	Recovered Ø (d) in. (mm)	Wall Thickness (WT) in. (mm)	Color	Pkg. Qty.
309-65124*	TFN21-ST 3.2/1.6	1/8	0.125 (3.2)	0.063 (1.6)	0.019 (0.5)	Black	20
309-65127*		1/8	0.125 (3.2)	0.063 (1.6)	0.019 (0.5)	Blue	20
309-65125*		1/8	0.125 (3.2)	0.063 (1.6)	0.019 (0.5)	Clear	20
309-65195*		1/8	0.125 (3.2)	0.063 (1.6)	0.019 (0.5)	Green	20
309-65126*		1/8	0.125 (3.2)	0.063 (1.6)	0.019 (0.5)	Red	20
309-65128*		1/8	0.125 (3.2)	0.063 (1.6)	0.019 (0.5)	White	20
309-65129*		1/8	0.125 (3.2)	0.063 (1.6)	0.019 (0.5)	Yellow	20
309-65134*	TFN21-ST 4.8/2.4	3/16	0.188 (4.8)	0.094 (2.4)	0.019 (0.5)	Black	20
309-65137*		3/16	0.188 (4.8)	0.094 (2.4)	0.019 (0.5)	Blue	20
309-65135*		3/16	0.188 (4.8)	0.094 (2.4)	0.019 (0.5)	Clear	20
309-65290*		3/16	0.188 (4.8)	0.094 (2.4)	0.019 (0.5)	Green	20
309-65136*		3/16	0.188 (4.8)	0.094 (2.4)	0.019 (0.5)	Red	20
309-65138*		3/16	0.188 (4.8)	0.094 (2.4)	0.019 (0.5)	White	20
309-65139*		3/16	0.188 (4.8)	0.094 (2.4)	0.019 (0.5)	Yellow	20
309-65144*	TFN21-ST 6.4/3.2	1/4	0.250 (6.4)	0.125 (3.2)	0.022 (0.6)	Black	15
309-65148*		1/4	0.250 (6.4)	0.125 (3.2)	0.022 (0.6)	Blue	15
309-65145*		1/4	0.250 (6.4)	0.125 (3.2)	0.022 (0.6)	Clear	15
309-65292*		1/4	0.250 (6.4)	0.125 (3.2)	0.022 (0.6)	Green	15
309-65166*		1/4	0.250 (6.4)	0.125 (3.2)	0.022 (0.6)	Green-Yellow	15
309-65147*		1/4	0.250 (6.4)	0.125 (3.2)	0.022 (0.6)	Red	15
309-65149*		1/4	0.250 (6.4)	0.125 (3.2)	0.022 (0.6)	White	15
309-65291*		1/4	0.250 (6.4)	0.125 (3.2)	0.022 (0.6)	Yellow	15
309-65154*	TFN21-ST 9.5/4.8	3/8	0.375 (9.5)	0.188 (4.8)	0.024 (0.6)	Black	15
309-65157*		3/8	0.375 (9.5)	0.188 (4.8)	0.024 (0.6)	Blue	15
309-65155*		3/8	0.375 (9.5)	0.188 (4.8)	0.024 (0.6)	Clear	15
309-65293*		3/8	0.375 (9.5)	0.188 (4.8)	0.024 (0.6)	Green	15
309-65156*		3/8	0.375 (9.5)	0.188 (4.8)	0.024 (0.6)	Red	15
309-65158*		3/8	0.375 (9.5)	0.188 (4.8)	0.024 (0.6)	White	15
309-65159*		3/8	0.375 (9.5)	0.188 (4.8)	0.024 (0.6)	Yellow	15
309-65164*	TFN21-ST 12.7/6.4	1/2	0.500 (12.7)	0.250 (6.4)	0.024 (0.6)	Black	10
309-65168*		1/2	0.500 (12.7)	0.250 (6.4)	0.024 (0.6)	Blue	10
309-65165*		1/2	0.500 (12.7)	0.250 (6.4)	0.024 (0.6)	Clear	10
309-65295*		1/2	0.500 (12.7)	0.250 (6.4)	0.024 (0.6)	Green	10
309-65146*		1/2	0.500 (12.7)	0.250 (6.4)	0.024 (0.6)	Green-Yellow	10
309-65167*		1/2	0.500 (12.7)	0.250 (6.4)	0.024 (0.6)	Red	10
309-65169*		1/2	0.500 (12.7)	0.250 (6.4)	0.024 (0.6)	White	10
309-65294*		1/2	0.500 (12.7)	0.250 (6.4)	0.024 (0.6)	Yellow	10

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

\*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

# Routing, Protection and Insulation

## Heat Shrink Tubing

### Non-Adhesive 2 to 1 Shrink Ratio

#### TFN21 Sticks Non-Adhesive Thin Wall

PART NO.	TYPE	Trade Size	Supplied Ø (D) in. (mm)	Recovered Ø (d) in. (mm)	Wall Thickness (WT) in. (mm)	Color	Pkg. Qty.
309-65174*	TFN21-ST 19.1/9.5	3/4	0.750 (19.1)	0.375 (9.5)	0.027 (0.7)	Black	5
309-65177*		3/4	0.750 (19.1)	0.375 (9.5)	0.027 (0.7)	Blue	5
309-65175*		3/4	0.750 (19.1)	0.375 (9.5)	0.027 (0.7)	Clear	5
309-65296*		3/4	0.750 (19.1)	0.375 (9.5)	0.027 (0.7)	Green	5
309-65176*		3/4	0.750 (19.1)	0.375 (9.5)	0.027 (0.7)	Red	5
309-65178*		3/4	0.750 (19.1)	0.375 (9.5)	0.027 (0.7)	White	5
309-65179*		3/4	0.750 (19.1)	0.375 (9.5)	0.027 (0.7)	Yellow	5
309-65184*	TFN21-ST 25.4/12.7	1	0.750 (25.4)	0.500 (12.7)	0.027 (0.9)	Black	5
309-65298*		1	1.000 (25.4)	0.500 (12.7)	0.034 (0.9)	Blue	5
309-65280*		1	1.000 (25.4)	0.500 (12.7)	0.034 (0.9)	Clear	5
309-65301*		1	1.000 (25.4)	0.500 (12.7)	0.034 (0.9)	Green	5
309-65297*		1	1.000 (25.4)	0.500 (12.7)	0.034 (0.9)	Red	5
309-65299*		1	1.000 (25.4)	0.500 (12.7)	0.034 (0.9)	White	5
309-65300*		1	1.000 (25.4)	0.500 (12.7)	0.034 (0.9)	Yellow	5
309-65271*	TFN21-ST 31.8/16.0	1-1/4	1.250 (31.8)	0.625 (16.0)	0.039 (1.0)	Black	10
309-65273*		1-1/4	1.250 (31.8)	0.625 (16.0)	0.039 (1.0)	Blue	10
309-65270*		1-1/4	1.250 (31.8)	0.625 (16.0)	0.039 (1.0)	Clear	10
309-65276*		1-1/4	1.250 (31.8)	0.625 (16.0)	0.039 (1.0)	Green	10
309-65272*		1-1/4	1.250 (31.8)	0.625 (16.0)	0.039 (1.0)	Red	10
309-65274*		1-1/4	1.250 (31.8)	0.625 (16.0)	0.039 (1.0)	White	10
309-65275*		1-1/4	1.250 (31.8)	0.625 (16.0)	0.039 (1.0)	Yellow	10
309-65194*	TFN21-ST 38.1/19.1	1-1/2	1.500 (38.1)	0.750 (19.1)	0.039 (1.0)	Black	6
309-65303*		1-1/2	1.500 (38.1)	0.750 (19.1)	0.039 (1.0)	Blue	6
309-65193*		1-1/2	1.500 (38.1)	0.750 (19.1)	0.039 (1.0)	Clear	6
309-65306*		1-1/2	1.500 (38.1)	0.750 (19.1)	0.039 (1.0)	Green	6
309-65302*		1-1/2	1.500 (38.1)	0.750 (19.1)	0.039 (1.0)	Red	6
309-65304*		1-1/2	1.500 (38.1)	0.750 (19.1)	0.039 (1.0)	White	6
309-65305*		1-1/2	1.500 (38.1)	0.750 (19.1)	0.039 (1.0)	Yellow	6
309-65211*	TFN21-ST 50.8/25.4	2	2.000 (50.8)	1.000 (25.4)	0.043 (1.1)	Black	6
309-65213*		2	2.000 (50.8)	1.000 (25.4)	0.043 (1.1)	Blue	6
309-65210*		2	2.000 (50.8)	1.000 (25.4)	0.043 (1.1)	Clear	6
309-65216*		2	2.000 (50.8)	1.000 (25.4)	0.043 (1.1)	Green	6
309-65212*		2	2.000 (50.8)	1.000 (25.4)	0.043 (1.1)	Red	6
309-65214*		2	2.000 (50.8)	1.000 (25.4)	0.043 (1.1)	White	6
309-65215*		2	2.000 (50.8)	1.000 (25.4)	0.043 (1.1)	Yellow	6

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### Non-Adhesive 2 to 1 Shrink Ratio

#### TFN21 Sticks Non-Adhesive Thin Wall

PART NO.	TYPE	Trade Size	Supplied Ø (D) in. (mm)	Recovered Ø (d) in. (mm)	Wall Thickness (WT) in. (mm)	Color	Pkg. Qty.
309-65221*	TFN21-ST 76.2/38.1	3	3.000 (76.2)	1.500 (38.1)	0.047 (1.2)	Black	3
309-65223*		3	3.000 (76.2)	1.500 (38.1)	0.047 (1.2)	Blue	3
309-65220*		3	3.000 (76.2)	1.500 (38.1)	0.047 (1.2)	Clear	3
309-65226*		3	3.000 (76.2)	1.500 (38.1)	0.047 (1.2)	Green	3
309-65222*		3	3.000 (76.2)	1.500 (38.1)	0.047 (1.2)	Red	3
309-65224*		3	3.000 (76.2)	1.500 (38.1)	0.047 (1.2)	White	3
309-65225*		3	3.000 (76.2)	1.500 (38.1)	0.047 (1.2)	Yellow	3
309-65231*	TFN21-ST 102/50.8	4	4.000 (102.0)	2.000 (50.8)	0.053 (1.4)	Black	2
309-65233*		4	4.000 (102.0)	2.000 (50.8)	0.053 (1.4)	Blue	2
309-65230*		4	4.000 (102.0)	2.000 (50.8)	0.053 (1.4)	Clear	2
309-65236*		4	4.000 (102.0)	2.000 (50.8)	0.053 (1.4)	Green	2
309-65232*		4	4.000 (102.0)	2.000 (50.8)	0.053 (1.4)	Red	2
309-65234*		4	4.000 (102.0)	2.000 (50.8)	0.053 (1.4)	White	2
309-65235*		4	4.000 (102.0)	2.000 (50.8)	0.053 (1.4)	Yellow	2

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# Routing, Protection and Insulation

## Heat Shrink Tubing

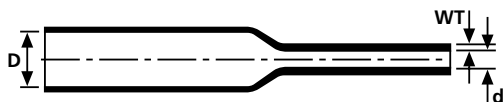
### Non-Adhesive 2 to 1 Shrink Ratio

#### TCN20 Reels Non-Adhesive Thin Wall

TCN20 is a general-purpose, thin-wall tubing used to protect electrical and mechanical wiring. In addition to having a 2 to 1 shrink ratio, the polyolefin material is self extinguishing and resistant against common fluids and solvents. The low shrink temperature and mechanical strength make this tubing ideal for use in the automotive and electronics industries.

#### Features and Benefits

- Thin wall heat shrink tubing with a 2 to 1 shrink ratio to fit a variety of component shapes and diameters.
- Provides abrasion and insulation protection while also resisting fluids and solvents.
- Meets UL224 VW-1 specifications for flame retardancy.
- Low +212 °F (+100 °C) shrink temperature is well suited for electronic and harness making applications.
- For use in applications up to 600 volts.



<b>MATERIAL</b>	Polyolefin, cross-linked (PO-X)
<b>Shrink Ratio</b>	2:1
<b>Longitudinal Change After Shrinkage</b>	+/-5 %
<b>Min. Shrink Temperature</b>	+212 °F (+100 °C)
<b>Operating Temperature</b>	-67°F to +257°F (-55°C to +125°C)
<b>Dielectric Strength</b>	20 kV/mm according to IEC 243
<b>Flammability</b>	UL 224 VW-1

RoHS

PART NO.	TYPE	Trade Size	Supplied Ø (D) in. (mm)	Recovered Ø (d) in. (mm)	Wall Thickness (WT) in. (mm)	Color	Pkg. Qty.
300-73601*	TCN20-1.6/0.8	1/16	0.062 (1.6)	0.032 (0.8)	0.013 (0.4)	Black	1000 ft
300-73602*	TCN20-2.4/1.2	3/32	0.094 (2.4)	0.047 (1.2)	0.017 (0.5)	Black	1000 ft
300-73603*	TCN20-3.2/1.6	1/8	0.120 (3.2)	0.062 (1.6)	0.017 (0.5)	Black	1000 ft
300-73604*	TCN20-4.8/2.4	3/16	0.189 (4.8)	0.094 (2.4)	0.019 (0.5)	Black	1000 ft
300-73606*	TCN20-9.5/4.8	3/8	0.370 (9.5)	0.189 (4.8)	0.021 (0.6)	Black	500 ft
300-73607*	TCN20-12.7/6.4	1/2	0.500 (12.7)	0.250 (6.4)	0.025 (0.7)	Black	500 ft
300-73608*	TCN20-19.1/9.5	3/4	0.750 (19.1)	0.370 (9.5)	0.031 (0.8)	Black	200 ft
300-73609*	TCN20-25.4/12.7	1	1.000 (25.4)	0.500 (12.7)	0.035 (0.9)	Black	200 ft
300-73610*	TCN20-38.1/19.1	1-1/2	1.500 (38.1)	0.750 (19.1)	0.040 (1.0)	Black	100 ft
300-73611*	TCN20-50.8/25.4	2	2.000 (50.8)	1.000 (25.4)	0.045 (1.2)	Black	100 ft

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

\*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

### Adhesive Lined Medium Wall

#### MA47 Sticks Adhesive Lined Medium Wall

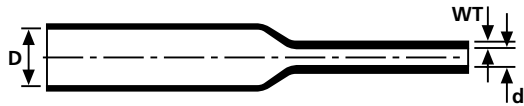
MA47 is a medium wall heat shrink tubing with an adhesive lining for use in applications up to 1000 volts. The thermoplastic adhesive liner provides excellent moisture sealing and insulation protection of cable joints and terminations. Made of a polyolefin outer material, this tubing has a shrink ratio up to 4 to 1. The adhesive lining begins to activate as the temperature approaches 185° F (85° C). Individually labeled 4-foot sticks come packaged in a retail display box.

#### Features and Benefits

- Medium wall tubing resists solvents, acids and alkaline solutions while providing good mechanical strength.
- Features robust insulation characteristics designed for low voltage power applications, up to 1000 volts.
- Adhesive lining provides excellent insulation against moisture and humidity.
- Individually tagged 4-foot sticks come in a retail box.



<b>MATERIAL</b>	Polyolefin, cross-linked (PO-X)
<b>Shrink Ratio</b>	up to 4:1
<b>Longitudinal Change After Shrinkage</b>	-10 % max.
<b>Min. Shrink Temperature</b>	+248 °F (+120 °C)
<b>Operating Temperature</b>	-67°F to +230°F (-55°C to +110°C)
<b>Dielectric Strength</b>	>20 kV/mm
<b>Flammability</b>	Not Flame Retardant



PART NO.	TYPE	Trade Size	Supplied Ø (D) in. (mm)	Recovered Ø (d) in. (mm)	Wall Thickness (WT) in. (mm)	Color	Pkg. Qty.
323-50010	TREDUX MA47-48ST-12/3	1/2	0.47 (12.0)	0.12 (3.0)	0.08 (2.0)	Black	6
323-50011	TREDUX MA47-48ST-19/6	3/4	0.75 (19.0)	0.24 (6.0)	0.09 (2.5)	Black	10
323-50012	TREDUX MA47-48ST-30/8	1-1/4	1.18 (30.0)	0.31 (8.0)	0.09 (2.5)	Black	6
323-50013	TREDUX MA47-48ST-40/12	1-1/2	1.57 (40.0)	0.47 (12.0)	0.09 (2.5)	Black	4
323-50014	TREDUX MA47-48ST-50/16	2	1.97 (50.0)	0.62 (16.0)	0.10 (2.7)	Black	2
323-50015	TREDUX MA47-48ST-63/19	2-1/2	2.48 (63.0)	0.75 (19.0)	0.11 (2.8)	Black	2
323-50016	TREDUX MA47-48ST-75/22	3	2.95 (75.0)	0.86 (22.0)	0.12 (3.0)	Black	2
323-50017	TREDUX MA47-48ST-95/30	3-3/4	3.74 (95.0)	1.18 (30.0)	0.12 (3.0)	Black	1

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

# Routing, Protection and Insulation

## Heat Shrink Tubing

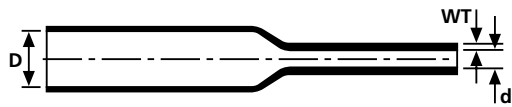
### Adhesive Lined Thick Wall

#### HA47 Sticks Adhesive-Lined Thick Wall

HA47 is a thick-wall adhesive lined heat shrink tubing for use in applications up to 1000 volts. The adhesive lining provides excellent moisture sealing and weather protection, making it suitable for above and below ground applications. Made of a polyolefin outer material, this tubing has a shrink ratio up to 3.5 to 1. The adhesive lining begins to activate as the temperature approaches 185° F (85° C).

#### Features and Benefits

- Thick, semi-flexible exterior wall is well-suited for applications up to 1000 volts, above or below ground.
- Adhesive lining provides excellent insulation against moisture and humidity.
- Individually tagged 4-foot sticks come in a retail box.



<b>MATERIAL</b>	Polyolefin, cross-linked (PO-X)
<b>Shrink Ratio</b>	up to 3.5:1
<b>Longitudinal Change After Shrinkage</b>	-10 % max.
<b>Min. Shrink Temperature</b>	+248 °F (+120 °C)
<b>Operating Temperature</b>	-67°F to +230°F (-55°C to +110°C)
<b>Softening Point Adhesive</b>	+185°F (+85°C)
<b>Dielectric Strength</b>	>20 kV/mm
<b>Flammability</b>	Not Flame Retardant



PART NO.	TYPE	Trade Size	Supplied Ø (D) in. (mm)	Recovered Ø (d) in. (mm)	Wall Thickness (WT) in. (mm)	Color	Pkg. Qty.
321-50010	TREDUX HA47-48ST-13/4	1/2	0.51 (13.0)	0.16 (4.0)	0.09 (2.4)	Black	6
321-50011	TREDUX HA47-48ST-19/6	3/4	0.75 (19.0)	0.24 (6.0)	0.11 (2.7)	Black	10
321-50012	TREDUX HA47-48ST-33/8	1-1/4	1.30 (33.0)	0.32 (8.0)	0.13 (3.2)	Black	5
321-50013	TREDUX HA47-48ST-45/12	1-3/4	1.77 (45.0)	0.47 (12.0)	0.16 (4.1)	Black	4
321-50014	TREDUX HA47-48ST-51/16	2	2.01 (51.0)	0.63 (16.0)	0.16 (4.1)	Black	2
321-50015	TREDUX HA47-48ST-68/22	2-3/4	2.67 (68.0)	0.87 (22.0)	0.16 (4.1)	Black	1
321-50016	TREDUX HA47-48ST-85/25	3-1/4	3.35 (85.0)	0.98 (25.0)	0.17 (4.3)	Black	1

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

## Worldwide expertise, tailor-made solutions.

Heat shrinkable molded shapes combine quick, easy installation with high electric strength, mechanical toughness and superior chemical and environmental resistance.

Strain-relieving boots, transitions and connector backshell covers, as well as other specialized shapes, protect applications ranging from insulation and protection of individual components to fabrication of complete interconnected cable harness assemblies.

**MADE FOR REAL** 

See the rugged options available to protect your connections from moisture, weather and more:  
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# TagPrintPRO 4.0

## Label Creation Software

For use with HellermannTyton labeling systems

- Create fully code-compliant labels with ease.
- Print automation allows one-step printing of multi-label groups.
- Pre-loaded with popular safety and solar label designs.
- See saved label designs before opening them.
- Advanced options allow users to dial-in ultimate printing control.
- Boost efficiency and reduce operator errors.



**Next Gen Identification**

HellermannTyton delivers the full spectrum in industrial-grade identification products. We have the product breadth and, just as important, the expertise, to cover any application and workflow. Durable labels and signs perform indoors or out. Advanced label creation software saves time and reduces mistakes. Dependable thermal printers provide fast, professional results. And, a comprehensive service and protection package supports it all.

Thermal Transfer Printer Labels .....	386
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Ink Jet Printer Labels .....	414
Dot Matrix Printer Labels.....	418
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### Labels for Thermal Transfer Printers

#### Thermal Transfer Self-Laminating Labels

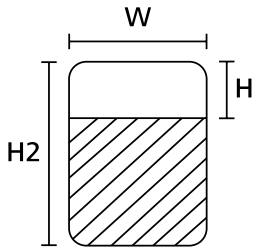
HellermannTyton thermal transfer self-laminating labels are a conformable vinyl film with a white printable surface followed by a clear tail that laminates the printed text when applied to a wire or cable. The labels are UL recognized for indoor and outdoor use with an aggressive acrylic adhesive that allows the label to bond to large and small diameter wires.

#### Features and Benefits

- HellermannTyton Self-Laminating Labels come on rolls on a standard 3" core for easy loading into a printer or caddy.
- Labels are conformable so that they can bend around small gauge wires and tight bends without coming loose over time.
- Labels are UL recognized for indoor and outdoor use to expand application options.
- HellermannTyton thermal transfer labels work in any thermal transfer printer so that the user always has options to get labels printed without being locked into a single vendor.



<b>MATERIAL</b>	Type 100B
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +194°F (-40°C to +90°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Printable Area Height (H) in. (mm)	Label Height (H2) in. (mm)	Vertical Repeat in. (mm)	Horizontal Repeat in. (mm)	Liner Width in. (mm)	Labels per Row	Color	Qty. per Roll
TAG26T6-100B*	TAG26T6	0.50 (12.7)	0.38 (9.5)	0.75 (19.1)	1.00 (25.4)	0.50 (12.7)	3.35 (85.1)	6	White	10000
TAG2T5-100B*	TAG2T5	0.50 (12.7)	0.50 (12.7)	1.43 (36.3)	1.62 (41.3)	0.66 (16.8)	3.35 (85.1)	5	White	10000
TAG51T3-100B*	TAG51T3	1.00 (25.4)	0.35 (8.9)	0.75 (19.1)	0.94 (23.7)	1.07 (27.2)	3.35 (85.1)	3	White	10000
TAG22T2-100B*	TAG22T2	1.00 (25.4)	0.50 (12.7)	1.43 (36.3)	1.62 (41.3)	1.07 (27.2)	2.25 (57.1)	2	White	5000
TAG22T3-100B*	TAG22T3	1.00 (25.4)	0.50 (12.7)	1.43 (36.3)	1.62 (41.3)	1.07 (27.2)	3.35 (85.1)	3	White	5000
TAG9T3-100B*	TAG9T3	1.00 (25.4)	1.00 (25.4)	2.25 (57.2)	2.50 (63.5)	1.07 (27.2)	3.35 (85.1)	3	White	5000

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

\*This product meets UL standards. Please see appendix for specific file numbers.



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### Labels for Thermal Transfer Printers

#### Thermal Transfer Self-Laminating Labels

PART NO.	TYPE	Label Width (W) in. (mm)	Printable Area Height (H) in. (mm)	Label Height (H2) in. (mm)	Vertical Repeat in. (mm)	Horizontal Repeat in. (mm)	Liner Width in. (mm)	Labels per Row	Color	Qty. per Roll
TAG3T3-100B*	TAG3T3	1.00 (25.4)	1.00 (25.4)	3.75 (95.3)	4.00 (101.6)	1.00 (25.4)	3.35 (85.1)	3	White	3000
TAG38T4-100B*	TAG38T4	1.00 (25.4)	1.50 (38.1)	7.35 (186.7)	7.75 (196.8)	1.00 (25.4)	4.10 (104.1)	4	White	1000
TAG53T2-100B*	TAG53T2	1.50 (38.1)	0.70 (17.8)	1.43 (36.5)	1.62 (41.3)	1.50 (38.1)	3.35 (89.1)	2	White	2500
TAG1T1-100B*	TAG1T1	1.90 (48.3)	0.75 (19.1)	3.12 (79.2)	3.42 (86.8)	2.00 (50.8)	3.88 (98.4)	1	White	2500
TAG24T1-100B*	TAG24T1	2.00 (50.8)	0.50 (12.7)	1.43 (36.3)	1.68 (42.6)	2.00 (50.8)	2.20 (55.9)	1	White	1000
TAG10T2-100B*	TAG10T2	2.00 (50.8)	0.75 (19.1)	2.25 (57.2)	2.50 (63.5)	2.00 (50.8)	3.88 (98.4)	2	White	2500
TAG6T1-100B*	TAG6T1	2.00 (50.8)	1.50 (38.1)	3.75 (95.3)	4.00 (101.6)	2.00 (50.8)	2.20 (55.9)	1	White	1000
TAG7T1-100B*	TAG7T1	2.00 (50.8)	1.50 (38.1)	7.34 (186.4)	7.75 (196.8)	2.00 (50.8)	4.10 (104.1)	2	White	1000

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\*This product meets UL standards. Please see appendix for specific file numbers.



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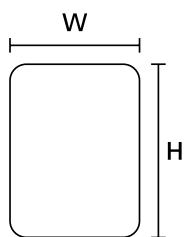
### Labels for Thermal Transfer Printers

#### Thermal Transfer Labels - Nylon Cloth

These labels are manufactured from a robust fabric that allows for conformable identification to most curved and flat surfaces. The material can also be used as a cable flag to identify cables that require more information.

#### Features and Benefits

- Cloth is conformable to adhere to a wide variety of curved and compound surfaces.
- The adhesive sticks to itself and can be used for flag wrap applications.



<b>MATERIAL</b>	Type 250, Nylon Cloth, white (WH)
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +248°F (-40°C to +120°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Vertical Repeat in. (mm)	Horizontal Repeat in. (mm)	Liner Width in. (mm)	Labels per Row	Color	Qty. per Roll
TAG21T6-250	TAG21T6	0.50 (12.7)	0.75 (19.1)	0.88 (22.2)	0.50 (12.7)	3.25 (82.6)	6	White	10000
TAG11T4-250	TAG11T4	0.65 (16.5)	0.20 (5.1)	0.50 (12.7)	0.65 (16.5)	2.60 (66.0)	4	White	5000
TAG28T4-250	TAG28T4	0.80 (20.3)	1.43 (36.3)	1.62 (41.1)	0.80 (20.3)	3.45 (87.6)	4	White	5000
TAG15T3-250	TAG15T3	1.00 (25.4)	0.50 (12.7)	0.60 (15.2)	1.00 (25.4)	3.35 (85.1)	3	White	10000
TAG35T2-250	TAG35T2	2.00 (50.8)	0.38 (9.5)	0.50 (12.7)	2.00 (50.8)	4.10 (104.1)	2	White	10000

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

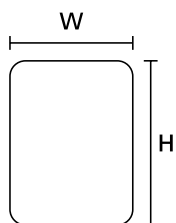
### Labels for Thermal Transfer Printers

#### Thermal Transfer Labels - 336 Polyester

HellermannTyton white polyester labels are ideal for marking small electrical and electronic components, such as EPROMS', Integrated circuits, as well as the circuit board itself. Printed labels can withstand the soldering process and survive flux removal when the board is washed. HellermannTyton's 336 material is designed for use on flat surfaces and can also be used to identify connectors, buttons and just about anything requiring permanent, durable, high temperature and UV resistant marking.

#### Features and Benefits

- White polyester is glossy, allowing for the highest resolution and print contrast.
- The acrylic-based adhesive bonds to a wide variety of substrates and can withstand high temperatures long term.



<b>MATERIAL</b>	Type 336, Polyester
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +302°F (-40°C to +150°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Vertical Repeat in. (mm)	Horizontal Repeat in. (mm)	Liner Width in. (mm)	Labels per Row	Color	Qty. per Roll
TAG96T1-336	TAG96T1	1.90 (48.2)	0.25 (6.4)	0.38 (9.4)	1.90 (48.2)	2.00 (50.8)	1	White	5000
TAG69T1-336*	TAG69T1	2.00 (50.8)	0.28 (7.0)	0.50 (12.7)	2.00 (50.8)	2.13 (54.0)	1	White	10000
TAG68T1-336*	TAG68T1	3.80 (96.5)	0.28 (7.0)	0.50 (12.7)	3.80 (96.5)	4.00 (101.6)	1	White	10000

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

\*This product meets UL standards. Please see appendix for specific file numbers.



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# Identification

## Labels

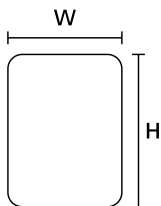
### Labels for Thermal Transfer Printers

#### Thermal Transfer Labels - 795 Polyester

HellermannTyton's metalized polyester labels include a layer of metallic particles that give the appearance of being made of metal. Applications include asset tracking and product rating plates. The high operating temperature makes them suitable for use on electronic equipment. Great for replacing expensive metal stampings, engravings and even silk screened rating plates, the printed labels offer high quality imaging for text and graphics and can be permanently placed on a wide variety of flat surfaces.

#### Features and Benefits

- Metalized polyester has a matte finish, allowing for the highest resolution and print contrast.
- The acrylic-based adhesive bonds to a wide variety of substrates and can withstand high temperatures long term.



<b>MATERIAL</b>	Type 795, Polyester (PET)
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +300°F (-40°C to +149°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Vertical Repeat in. (mm)	Horizontal Repeat in. (mm)	Liner Width in. (mm)	Labels per Row	Color	Qty. per Roll
TAG15T3-795*	TAG15T3	1.00 (25.4)	0.50 (12.7)	0.60 (15.2)	1.07 (27.2)	3.35 (85.1)	3	Silver	10000
TAG27T1-795*	TAG27T1	1.50 (38.1)	0.75 (19.1)	0.88 (22.2)	1.50 (38.1)	2.20 (55.9)	1	Silver	3000
TAG75T1-795*	TAG75T1	2.00 (50.8)	0.63 (15.9)	0.75 (19.1)	2.00 (50.8)	2.12 (53.8)	1	Silver	2000
TAG73T1-795*	TAG73T1	2.00 (50.8)	1.00 (25.4)	1.12 (28.4)	2.00 (50.8)	2.20 (55.8)	1	Silver	3000
TAG76T1-795*	TAG76T1	2.50 (63.5)	2.00 (50.8)	2.12 (53.8)	2.50 (63.5)	2.62 (66.5)	1	Silver	1000
TAG72T1-795*	TAG72T1	2.75 (69.9)	1.25 (31.0)	1.38 (34.9)	2.75 (69.9)	2.95 (75.0)	1	Silver	3000
TAG78T1-795*	TAG78T1	3.00 (76.2)	4.00 (101.6)	4.12 (104.7)	3.00 (76.2)	3.12 (79.2)	1	Silver	500
TAG80T1-795*	TAG80T1	3.00 (76.2)	5.00 (127.0)	5.12 (130.5)	3.00 (76.2)	3.13 (79.4)	1	Silver	500
TAG79T1-795*	TAG79T1	4.00 (101.6)	2.00 (50.8)	2.12 (54.0)	4.00 (101.6)	4.25 (107.9)	1	Silver	500

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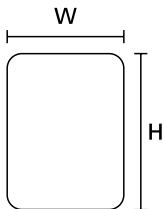
### Labels for Thermal Transfer Printers

#### Thermal Transfer Labels - 822 Polyester

HellermannTyton white polyester labels are ideal for marking small electrical and electronic components, such as EPROMS', Integrated circuits, as well as the circuit board itself. Printed labels can withstand the soldering process and survive flux removal when the board is washed. HellermannTyton's 822 material is designed for use on flat surfaces and can also be used to identify connectors, buttons and just about anything requiring permanent, durable, high temperature and UV resistant marking.

#### Features and Benefits

- White polyester is glossy, allowing for the highest resolution and print contrast.
- The acrylic-based adhesive bonds to a wide variety of substrates and can withstand high temperatures long term.



<b>MATERIAL</b>	Type 822, Polyester (PET)
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +302°F (-40°C to +150°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Vertical Repeat in. (mm)	Horizontal Repeat in. (mm)	Liner Width in. (mm)	Labels per Row	Color	Qty. per Roll
TAG70T12-822*	TAG70T12	0.25 (6.4)	0.25 (6.4)	0.50 (12.7)	0.25 (6.4)	3.20 (81.2)	12	White	10000
TAG81T8-822*	TAG81T8	0.32 (8.3)	0.20 (5.1)	0.32 (8.3)	0.32 (8.3)	2.60 (66.0)	8	White	5000
TAG71T5-822*	TAG71T5	0.50 (12.7)	0.43 (12.7)	0.66 (16.8)	0.50 (12.7)	3.35 (85.1)	5	White	10000
TAGPP1T6-82210M*	TAGPP1T6	0.63 (15.9)	0.33 (7.9)	0.75 (19.1)	0.63 (15.9)	3.80 (96.5)	6	White	10000
TAGPP1T6-822*		0.63 (15.9)	0.33 (7.9)	0.75 (19.1)	0.63 (15.9)	3.80 (96.5)	6	White	1000
TAG11T4-822*	TAG11T4	0.65 (16.5)	0.20 (5.1)	0.50 (12.7)	0.65 (16.5)	2.60 (66.0)	4	White	5000
TAGPP3T4-822*	TAGPP3T4	0.69 (17.5)	0.25 (6.4)	0.38 (9.5)	0.69 (17.5)	2.90 (73.7)	4	White	1000
TAG13T4-822*	TAG13T4	0.75 (19.1)	0.25 (6.4)	0.35 (8.9)	0.75 (19.1)	3.35 (85.1)	4	White	10000
TAG16T3-822*	TAG16T3	0.90 (22.9)	0.25 (6.4)	0.35 (8.9)	0.90 (22.9)	3.35 (85.1)	3	White	10000

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### Labels for Thermal Transfer Printers

#### Thermal Transfer Labels - 822 Polyester

PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Vertical Repeat in. (mm)	Horizontal Repeat in. (mm)	Liner Width in. (mm)	Labels per Row	Color	Qty. per Roll
TAG15T3-822*	TAG15T3	1.00 (25.4)	0.50 (12.7)	0.60 (15.2)	1.07 (27.2)	3.35 (85.1)	3	White	10000
TAG84T3-822*	TAG84T3	1.25 (31.8)	0.38 (31.8)	0.50 (12.7)	1.25 (31.8)	4.00 (101.6)	3	White	10000
TAG82T2-822*	TAG82T2	1.50 (38.1)	0.25 (6.4)	0.30 (7.6)	1.50 (38.1)	3.20 (81.3)	2	White	10000
TAG17T2-822*	TAG17T2	1.50 (38.1)	0.25 (6.4)	0.35 (8.9)	1.50 (38.1)	3.35 (85.1)	2	White	10000
TAG27T1-822*	TAG27T1	1.50 (38.1)	0.75 (19.1)	0.88 (22.2)	1.50 (38.1)	2.20 (55.9)	1	White	3000
TAG75T1-822*	TAG75T1	2.00 (50.8)	0.63 (15.9)	0.75 (19.1)	2.00 (50.8)	2.12 (53.8)	1	White	2000
TAG73T1-822*	TAG73T1	2.00 (50.8)	1.00 (25.4)	1.13 (28.6)	2.00 (50.8)	2.20 (55.8)	1	White	3000
TAG72T1-822*	TAG72T1	2.75 (69.8)	1.25 (31.0)	1.38 (34.9)	2.75 (69.9)	2.95 (75.0)	1	White	3000
TAG83T1-822*	TAG83T1	4.00 (101.6)	0.31 (7.9)	0.44 (11.1)	4.00 (101.6)	4.10 (104.1)	1	White	5000

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### Labels for Thermal Transfer Printers

#### Thermal Transfer Labels - 822C Polyester

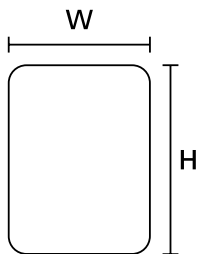
HellermannTyton transparent/clear polyester labels are ideal for marking products where the visibility of the label needs to be minimized, such as consumer products, where the color of the housing needs to remain as clean looking as possible. The clear material allows the surface color to blend in with the printed text. These labels can also be used as an over-laminate to provide further protection for printed text in extreme environments.

#### Features and Benefits

- Clear polyester is glossy, allowing for the highest resolution and print contrast.
- The acrylic-based adhesive bonds to a wide variety of substrates and can withstand high temperatures long term.



<b>MATERIAL</b>	Type 822C, Clear Polyester (CL)
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +302°F (-40°C to +150°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Vertical Repeat in. (mm)	Horizontal Repeat in. (mm)	Liner Width in. (mm)	Labels per Row	Color	Qty. per Roll
TAGPP1T6-822C*	TAGPP1T6	0.63 (15.9)	0.33 (7.9)	0.75 (19.1)	0.63 (15.9)	3.80 (96.5)	6	Clear	1000
TAGPP1T6-822C10M*		0.63 (15.9)	0.33 (7.9)	0.75 (19.1)	0.63 (15.9)	3.80 (96.5)	6	Clear	10000
TAG11T4-822C*	TAG11T4	0.65 (16.5)	0.20 (5.1)	0.50 (12.7)	0.65 (16.5)	2.60 (66.0)	4	Clear	5000
TAG15T3-822C10M*	TAG15T3	1.00 (25.4)	0.50 (12.7)	0.60 (15.2)	1.00 (25.4)	3.35 (85.1)	3	Clear	10000
TAG27T1-822C	TAG27T1	1.50 (38.1)	0.75 (19.1)	0.88 (22.2)	1.50 (38.1)	2.20 (55.9)	1	Clear	3000

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### Labels for Thermal Transfer Printers

#### Thermal Transfer Labels - 840W Polyester

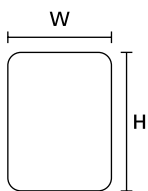
For the ultimate in chemical and solvent resistance and long term outdoor durability, the 840 white polyester offers the most aggressive performance features of any other polyester label material. With an initial outdoor life of 7 years, the labels have been tested far beyond the published limits and the acrylic adhesive bonds well to powder coat painted surfaces as well as baked enamel and slightly textured substrates.

#### Features and Benefits

- White polyester is glossy, allowing for the highest resolution and print contrast.
- The acrylic-based adhesive bonds to a wide variety of substrates and can withstand high temperatures long term.
- The printable surface is highly resistant to chemicals and solvents and can withstand long-term UV exposure.



<b>MATERIAL</b>	Type 840W, Polyester (PET), White (WH)
<b>Adhesive</b>	High Bond Acrylic
<b>Operating Temperature</b>	-40°F to +300°F (-40°C to +149°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Vertical Repeat in. (mm)	Horizontal Repeat in. (mm)	Liner Width in. (mm)	Labels per Row	Color	Qty. per Roll
596-73833*	PCP2X1	2.00 (50.8)	1.00 (25.4)	1.13 (28.6)	2.00 (50.8)	2.20 (122.9)	1	White	3000
596-73834*	PCP3X1	3.00 (76.2)	1.00 (25.4)	1.13 (28.6)	3.00 (76.2)	3.20 (81.3)	1	White	3000
596-73835*	PCP4X3	4.00 (101.6)	3.00 (76.2)	3.13 (79.4)	4.00 (101.6)	4.20 (106.7)	1	White	1000

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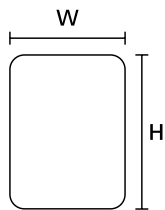
### Labels for Thermal Transfer Printers

#### Thermal Transfer Labels - Paper

These labels serve as general purpose identification for use on clear plastic bags. The aggressive adhesive is designed to adhere to all types of polyethylene bags, ensuring the printed information remains on the bag long term. Best for indoor use, inventory and packaging, as well as office and shipping identification.

#### Features and Benefits

- Paper utilizes a rubber-based adhesive for immediate tack to any surface.
- Good for temporary identification of bags and boxes and best for indoor use.



<b>MATERIAL</b>	Type 101, paper, white (WH)
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-65°F to +200°F (-54°C to +93°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Vertical Repeat in. (mm)	Horizontal Repeat in. (mm)	Liner Width in. (mm)	Labels per Row	Color	Qty. per Roll
TAG77T1-101	TAG77T1	3.00 (76.2)	0.94 (76.2)	1.00 (25.4)	3.00 (76.2)	3.12 (79.2)	1	White	2000

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

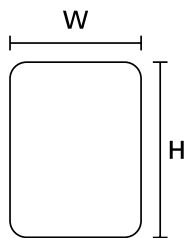
### Labels for Thermal Transfer Printers

#### Thermal Transfer Labels - Polyethylene

HellermannTyton's polyethylene labels are smooth and conformable to most surfaces. The material's ability to withstand areas where oil and moisture are present is an important feature. Bonds well to low surface energy plastics such as polypropylene and nylon. A low cost alternative to cloth style labels.

#### Features and Benefits

- Polyethylene is conformable to adhere to a wide variety of curved and compound surfaces.
- The adhesive sticks to itself and can be used for flag wrap applications.
- The smooth, printable surface allows for high-quality imaging for text and graphics.



<b>MATERIAL</b>	Polyethylene (PE)
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +176°F (-40°C to +80°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Vertical Repeat in. (mm)	Horizontal Repeat in. (mm)	Liner Width in. (mm)	Labels per Row	Color	Qty. per Roll
596-21251	TAG21T6	0.50 (12.7)	0.75 (19.1)	0.88 (22.2)	0.50 (12.7)	3.25 (82.6)	6	White	10000
596-28251	TAG28T4	0.80 (20.3)	1.43 (36.3)	1.62 (41.1)	0.80 (20.3)	3.45 (87.6)	4	White	5000

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

### Labels for Thermal Transfer Printers

#### Thermal Transfer Labels - Polyolefin

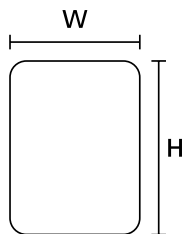
HellermannTyton white polyolefin labels are ideal for marking small electrical and electronic components, such as EPROMS', Integrated circuits, as well as the circuit board itself. Printed labels can withstand the soldering process and survive flux removal when the board is washed. HellermannTyton's polyolefin material is designed for use on flat surfaces and can also be used to identify connectors, buttons and just about anything requiring permanent, durable, high temperature and UV resistant marking.

#### Features and Benefits

- White polyester is glossy, allowing for the highest resolution and print contrast.
- The acrylic-based adhesive bonds to a wide variety of substrates and can withstand high temperatures long term.



<b>MATERIAL</b>	Polyolefin (PO)
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +140°F (-40°C to +60°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Vertical Repeat in. (mm)	Horizontal Repeat in. (mm)	Liner Width in. (mm)	Labels per Row	Color	Qty. per Roll
TAG13T4-DTH	TAG13T4	0.75 (19.1)	0.25 (6.4)	0.35 (8.9)	0.75 (19.1)	3.35 (85.1)	4	White	10000
TAG16T3-DTH	TAG16T3	0.90 (22.9)	0.25 (6.4)	0.35 (8.9)	0.90 (22.9)	3.35 (85.1)	3	White	10000
TAG15T3-DTH	TAG15T3	1.00 (25.4)	0.50 (12.7)	0.60 (15.2)	1.10 (27.9)	3.35 (85.1)	3	White	10000
TAG27T2-DTH	TAG27T2	1.50 (38.1)	0.75 (19.1)	0.88 (22.2)	1.50 (38.1)	2.20 (55.8)	2	White	10000
TAG73T1-DTH*	TAG73T1	2.00 (50.8)	1.00 (25.4)	1.13 (28.6)	2.00 (50.8)	2.20 (55.8)	1	White	3000
TAG33T1-DTH	TAG33T1	3.00 (76.2)	2.00 (50.8)	2.13 (54.0)	3.00 (76.2)	3.10 (78.7)	1	White	1000

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

\*This product meets UL standards. Please see appendix for specific file numbers.



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### Labels for Thermal Transfer Printers

#### Continuous Vinyl Labels

Continuous Vinyl Labels are made with UV-stable materials for long outdoor life. The labels are extruded in the actual color and not colored using surface inks for long-term fade resistance. Vinyl labels are provided in continuous rolls so that the markers can be printed and cut to any length using HellermannTyton thermal transfer printing systems. Good for all surface types except powder coat painted or low surface energy substrates such as polypropylene. Test on these surfaces before approving.

#### Features and Benefits

- Pre-printed header striped continuous vinyl rolls come in different header colors, providing a variety of printing options.
- The headers can be printed with various ARC FLASH, WARNING AND CAUTION headlines to meet OSHA safety standards for identifying electrical panels and equipment.
- Signs can be designed in Tagprint Pro labeling software and printed with any HellermannTyton thermal transfer printing system with optional cutter attached.



<b>MATERIAL</b>	Vinyl
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +180°F (-40°C to +82°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Roll Length (L) ft. (m)	Color
558-00307*	HT1BK250	1.0 (25.4)	250.0 (76.2)	Black
558-00339	HT1BU250	1.0 (25.4)	250.0 (76.2)	Blue
558-00340	HT1GN250	1.0 (25.4)	250.0 (76.2)	Green
558-00336	HT1OE250	1.0 (25.4)	250.0 (76.2)	Orange
558-00308*	HT1RD250	1.0 (25.4)	250.0 (76.2)	Red
558-00309*	HT1WH250	1.0 (25.4)	250.0 (76.2)	White
558-00310*	HT1YE250	1.0 (25.4)	250.0 (76.2)	Yellow
558-00311*	HT2BK250	2.0 (50.8)	250.0 (76.2)	Black
558-00341	HT2BU250	2.0 (50.8)	250.0 (76.2)	Blue
558-00342	HT2GN250	2.0 (50.8)	250.0 (76.2)	Green
558-00337	HT2OE250	2.0 (50.8)	250.0 (76.2)	Orange

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## Labels for Thermal Transfer Printers

## Continuous Vinyl Labels

<b>PART NO.</b>	<b>TYPE</b>	<b>Label Width (W) in. (mm)</b>	<b>Roll Length (L) ft. (m)</b>	<b>Color</b>
558-00312*	HT2RD250	2.0 (50.8)	250.0 (76.2)	Red
558-00372	HT2RDRF250	2.0 (50.8)	250.0 (76.2)	Red Reflective
558-00313*	HT2WH250	2.0 (50.8)	250.0 (76.2)	White
558-00314*	HT2YE250	2.0 (50.8)	250.0 (76.2)	Yellow
558-00373*	HT3RDRF250	3.0 (76.2)	100.0 (30.5)	Red Reflective
558-00374*	HT3BK250	3.0 (76.2)	250.0 (76.2)	Black
558-00343	HT3BU250	3.0 (76.2)	250.0 (76.2)	Blue
558-00344	HT3GN250	3.0 (76.2)	250.0 (76.2)	Green
558-00338	HT3OE250	3.0 (76.2)	250.0 (76.2)	Orange
558-00006*	HT3RD250	3.0 (76.2)	250.0 (76.2)	Red
558-00345*	HT3WH250	3.0 (76.2)	250.0 (76.2)	White
558-00346*	HT3YE250	3.0 (76.2)	250.0 (76.2)	Yellow
558-00351	HT4GN250	4.0 (101.6)	250.0 (76.2)	Green
558-00370*	HT4RD250	4.0 (101.6)	250.0 (76.2)	Red
558-00350*	HT4WH250	4.0 (101.6)	250.0 (76.2)	White
558-00411	HT4OE250	4.0 (101.6)	250.0 (76.2)	Orange
558-00377	HT1RDRF250	1.0 (25.4)	250.0 (76.2)	Red Reflective
558-00407	HT4RDF100	4.0 (101.6)	100.0 (30.5)	Red Reflective
558-00358	HT4YE250	4.0 (101.6)	250.0 (76.2)	Yellow

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### Labels for Thermal Transfer Printers

#### Banded Colored Continuous Rolls - 840/926 Polyester

Banded colored continuous rolls come with a stripe (band) for easy printing of warning labels. Available in different widths, these labels are designed for use with TagPrint® Pro software and HellermannTyton thermal transfer printers and can be customized, produced on demand and cut to any length.

#### Features and Benefits

- Continuous Colored Signal Panel labels come with yellow or orange stripes for easy printing of caution and warning labels.
- Continuous labels allow for designing and cutting labels to any length.
- Various widths are available so that a wide variety of sign sizes can be customized and produced on demand.



<b>MATERIAL</b>	Type 840/926, Polyester (PET), UV stable, clear Polyester laminate
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +302°F (-40°C to +150°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Roll Length (L) ft. (m)	Color
558-00380*	HT20E50250UV	2.0 (50.8)	250.0 (76.2)	Orange
558-00381*	HT30E75250UV	3.0 (76.2)	250.0 (76.2)	Orange
558-00382	HT40E10250UV	4.0 (101.6)	250.0 (76.2)	Orange

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### Labels for Thermal Transfer Printers

#### High Bond Colored Continuous Rolls

These reflective rolls offer a high bond adhesive that is sustainable for low surface energy substrates such as the low density plastics on the front of an inverter or powder coat paint surfaces. The adhesive is designed to adhere to textured surfaces without peeling or falling off.

#### Features and Benefits

- Continuous Colored Signal Panel labels come with yellow or orange stripes for easy printing of caution and warning labels.
- Continuous labels allow for designing and cutting labels to any length.
- Various widths are available so that a wide variety of sign sizes can be customized and produced on demand.



<b>MATERIAL</b>	Type 840/926, Polyester (PET), UV stable, clear Polyester laminate
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +302°F (-40°C to +150°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Roll Length (L) ft. (m)	Color
558-00501	HT1RDHB250	1.0 (25.4)	250.0 (76.2)	Red
558-00502	HT2RDHB250	2.0 (50.8)	250.0 (76.2)	Red
558-00503*	HT3RDHB250	3.0 (76.2)	100.0 (30.5)	Red

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### Labels for Thermal Transfer Printers

#### Banded Colored Continuous Rolls - 336/926 Polyester

The Pre-printed colored header vinyl rolls can be used to design signs that conform to Occupational Safety and Hazard Association (OSHA) and American National Standards Institute (ANSI) requirements for Warning and Caution Signs and markers. All can be designed, printed and cut to length in Tagprint Pro and any HellermannTyton thermal transfer printing system.

#### Features and Benefits

- Continuous Colored Signal Panel labels come with yellow or orange stripes for easy printing of caution and warning labels.
- Continuous labels allow for designing and cutting labels to any length.
- Various widths are available so that a wide variety of sign sizes can be customized and produced on demand.



<b>MATERIAL</b>	Type 336/926, Polyester (PET), UV stable, clear Polyester laminate
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +302°F (-40°C to +150°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Roll Length (L) ft. (m)	Color
558-00327*	HT2OE50250	2.0 (50.8)	250.0 (76.2)	Orange
558-00328*	HT2YE50250	2.0 (50.8)	250.0 (76.2)	Yellow
558-00330	HT3OE75250	3.0 (76.2)	250.0 (76.2)	Orange
558-00331	HT3YE75250	3.0 (76.2)	250.0 (76.2)	Yellow
558-00333	HT4OE10250	4.0 (101.6)	250.0 (76.2)	Orange
558-00334	HT4YE10250	4.0 (101.6)	250.0 (76.2)	Yellow

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### Labels for Thermal Transfer Printers

#### Pre-Printed Header Labels

The most common signal word signs are DANGER, WARNING, CAUTION, NOTICE and SAFETY as defined by ANSI Z535.4. Each preprinted signal word label comes with the colored signal panel, signal word, and safety alert symbol (if required.) Using TagPrint Pro 4.0 software, the balance of information can easily be designed and printed using presaved templates in the labeling software and any HellermannTyton thermal transfer printer. This solution allows almost unlimited capabilities to create practically any conceivable sign on demand with no minimums.

#### Features and Benefits

- Pre-Printed Signal Word Labels are made with UV-stable inks and materials for durability and weather resistance.
- Polyester is resistant to chemicals and solvents and will remain legible in dirty environments.
- High abrasion and scuff resistance for high performance labeling.
- Meets NEC & IFC standards for printed text, character height, color and outdoor UV stability to pass inspections.



<b>MATERIAL</b>	Polyester (PET)
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +302°F (-40°C to +150°C)



PART NO.	TYPE	Description	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Vertical Repeat in. (mm)	Horizontal Repeat in. (mm)	Liner Width in. (mm)	Labels per Row	Color	Qty. per Roll
596-00378*	WV275X135	WARNING Header, Orange with Blank Yellow Triangle	1.35 (34.3)	2.75 (69.9)	2.88 (73.0)	1.35 (34.3)	1.40 (35.6)	1	Orange	250
596-00386*	WS275X135	WARNING Header, White with Orange	1.35 (34.3)	2.75 (69.9)	2.88 (73.0)	1.35 (34.3)	1.40 (35.6)	1	Orange	250
596-00387*	DS275X135	DANGER Header, White with Red	1.35 (34.3)	2.75 (69.9)	2.88 (73.0)	1.35 (34.3)	1.40 (35.6)	1	Red	250
596-00379*	DV275X135	WARNING Header, Red with Blank Yellow Triangle	1.35 (34.3)	2.75 (69.9)	2.88 (73.0)	1.35 (34.3)	1.40 (355.6)	1	Red	250
596-00376*	WV55X275	WARNING Header, White with Orange	2.75 (69.8)	5.50 (139.7)	5.63 (142.9)	2.75 (69.9)	2.80 (71.1)	1	Orange	250
596-00377*	DV55X275	DANGER Header, White with Red	2.75 (69.9)	5.50 (139.7)	5.63 (142.9)	2.75 (69.9)	2.80 (71.1)	1	Red	250
596-00388*	WS55X275	WARNING Header, White with Orange	2.75 (69.9)	5.50 (139.7)	5.63 (142.9)	2.75 (69.9)	2.80 (71.1)	1	Orange	250
596-00389*	DS55X275	DANGER Header, White with Red	2.75 (69.9)	5.50 (139.7)	5.63 (142.9)	2.75 (69.9)	2.80 (71.1)	1	Red	250
596-00372*	3X2SAFETY	SAFETY Header, White with Green	3.00 (76.2)	2.00 (50.4)	2.13 (155.6)	4.00 (101.6)	3.20 (81.2)	1	Green	250

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

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### Labels for Thermal Transfer Printers

#### Pre-Printed Header Labels

PART NO.	TYPE	Description	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Vertical Repeat in. (mm)	Horizontal Repeat in. (mm)	Liner Width in. (mm)	Labels per Row	Color	Qty. per Roll
596-00424*	3X2DANGER	DANGER Header, White with Red	3.00 (76.2)	2.00 (50.8)	2.13 (79.4)	3.00 (76.2)	3.20 (81.2)	1	Red	250
596-00426*	3X2NOTICE	NOTICE Header, White with Blue	3.00 (76.2)	2.00 (50.8)	2.13 (79.4)	3.00 (76.2)	3.20 (81.2)	1	Blue	250
596-00622*	3X2WARNING	WARNING Header, White with Orange	3.00 (76.2)	2.00 (50.8)	2.13 (79.4)	3.00 (76.2)	3.20 (81.2)	1	Orange	250
596-00425*	3X2CAUTION	Yellow CAUTION header	3.00 (76.2)	2.00 (50.8)	2.13 (79.4)	3.00 (76.2)	3.20 (81.2)	1	Yellow	250
596-00204*	4X6NOTICE	NOTICE Header, White with Blue	6.00 (152.4)	4.00 (101.6)	6.13 (155.6)	4.00 (101.6)	4.20 (106.6)	1	Blue	250
596-00621*	4X6WARNING	WARNING Header, White with Orange	6.00 (152.4)	4.00 (101.6)	6.13 (155.6)	4.00 (101.6)	4.20 (106.6)	1	Orange	250
596-00427*	4X6CAUTION	CAUTION Header, White with Yellow	6.00 (152.4)	6.00 (152.4)	2.13 (79.4)	4.00 (101.6)	4.20 (106.6)	1	Yellow	250
596-00371*	4X6SAFETY	SAFETY Header, White with Green	6.00 (152.4)	6.00 (152.4)	6.13 (104.8)	4.00 (101.6)	4.20 (106.6)	1	Green	250
596-00203*	4X6DANGER	DANGER Header, White with Red	6.00 (152.4)	6.00 (152.4)	6.13 (155.6)	4.00 (101.6)	4.20 (106.6)	1	Red	250

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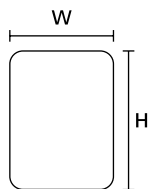
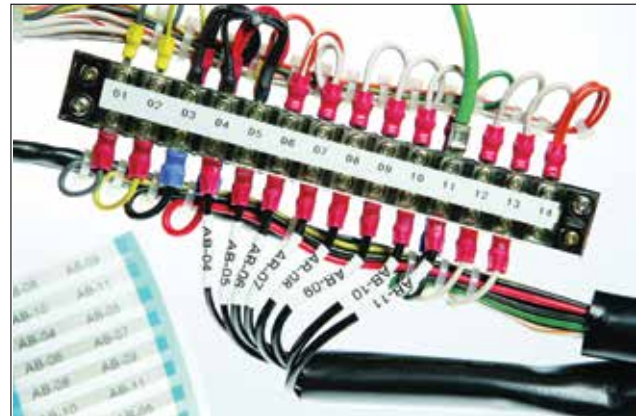
### Labels for Thermal Transfer Printers

#### Terminal Block Labels

Terminal Block labels can be printed to match the terminal spacing of most terminal blocks using TagPrint Pro 4.0 labeling software.

#### Features and Benefits

- Thermal transfer labels are made with high-performance materials for long-term industrial applications.
- Labels can be printed in any standard thermal transfer printer giving the user options for printing and eliminating the need to be dedicated to one printer model.
- The labels are available in a wide variety of sizes so that finding a label for a particular application is easy.



<b>MATERIAL</b>	Polyethylene (PE)
<b>Adhesive</b>	Rubber
<b>Operating Temperature</b>	-40°F to +176°F (-40°C to +80°C)



<b>PART NO.</b>	<b>TYPE</b>	<b>Label Width (W) in. (mm)</b>	<b>Roll Length (L) ft. (m)</b>	<b>Color</b>
596-00380	TBL375	0.38 (9.5)	100.00 (30.5)	White
596-00381	TBL500	0.50 (12.7)	100.00 (30.5)	White

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

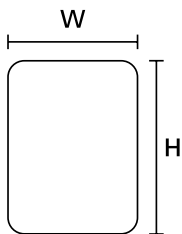
### Labels for Thermal Transfer Printers

#### Phase Labels

Phase labels are microperforated between each label so that it can be applied as one strip to the panel or broken into individual labels.

#### Features and Benefits

- Thermal transfer labels are made with high-performance materials for long-term industrial applications.
- Labels can be printed in any standard thermal transfer printer giving the user options for printing and eliminating the need to be dedicated to one printer model.
- The labels are available in a wide variety of sizes so that finding a label for a particular application is easy.



<b>MATERIAL</b>	Polyester (PET)
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +300°F (-40°C to +149°C)

**RoHS** ✓

PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Vertical Repeat in. (mm)	Horizontal Repeat in. (mm)	Liner Width in. (mm)	Labels per Row	Color	Qty. per Roll
596-00383*	PLB3P	1.00 (25.4)	0.50 (12.7)	0.63 (15.9)	1.00 (25.4)	3.35 (85.1)	3	Black	2500
596-00382*	PLW3P	1.00 (25.4)	0.50 (12.7)	0.63 (15.9)	1.00 (25.4)	3.35 (85.1)	3	White	2500

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### Labels for Laser Printers

#### Laser Tag Labels - 788 Polyester

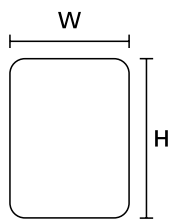
HellermannTyton white polyester labels are ideal for marking small electrical and electronic components, such as EPROMS', Integrated circuits, as well as the circuit board itself. Printed labels can withstand the soldering process and survive flux removal when the board is washed. HellermannTyton's 788 material is designed for use on flat surfaces and can also be used to identify connectors, buttons and just about anything requiring permanent, general purpose marking.

#### Features and Benefits

- White polyester has a smooth surface, allowing for the highest resolution and print contrast.
- The acrylic-based adhesive bonds to a wide variety of substrates and resists abrasion.
- LaserTags are sheet fed for easy loading and fast printing.



<b>MATERIAL</b>	Type 788, Polyester (PET)
<b>Operating Temperature</b>	-40°F to +199°F (-40°C to +93°C)
<b>Adhesive</b>	Acrylic



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Labels per Row	Labels per Column	Labels per Sheet	Color	Qty. per Pkg.
TAGPP1-788	TAGPP1L	0.63 (15.9)	0.37 (9.4)	12	30	360	White	1000
TAG62L-788	TAG62L	1.50 (38.1)	0.38 (9.5)	5	25	125	White	1000
TAG61L-788	TAG61L	2.62 (66.7)	1.00 (25.4)	3	10	30	White	7500
TAG60L-788	TAG60L	2.83 (71.9)	1.50 (38.1)	3	7	21	White	5250
TAG59L-788	TAG59L	4.00 (101.6)	1.50 (38.1)	2	7	14	White	3500
TAG55L-788	TAG55L	4.25 (107.9)	5.50 (139.7)	2	2	4	White	1000
TAG54L-788	TAG54L	8.50 (215.9)	5.50 (139.7)	1	2	2	White	500
TAG53L-788	TAG53L	8.50 (215.9)	10.81 (274.6)	1	1	1	White	250

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

# Identification

## Labels

### Labels for Laser Printers

#### Laser Tag Labels - 788C Polyester

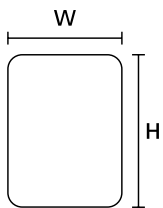
HellermannTyton transparent/clear polyester labels are ideal for marking products where the visibility of the label needs to be minimized, such as consumer products, where the color of the housing needs to remain as clean looking as possible. The clear material allows the surface color to blend in with the printed text. These labels can also be used as an over-laminate to provide further protection for printed text in extreme environments.

#### Features and Benefits

- Clear polyester has a smooth surface, allowing for the highest resolution and print contrast.
- The acrylic-based adhesive bonds to a wide variety of substrates and resists abrasion.
- LaserTags are sheet fed for easy loading and fast printing.
- LaserTags are made of high-temperature materials to withstand the high heat of laser printing.



<b>MATERIAL</b>	Type 788C, Polyester, clear (CL)
<b>Operating Temperature</b>	-40°F to +199°F (-40°C to +93°C)
<b>Adhesive</b>	Acrylic



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Labels per Row	Labels per Column	Labels per Sheet	Color	Qty. per Pkg.
TAGPP1-788C	TAGPP1	0.63 (15.9)	0.33 (8.5)	12	30	360	Clear	1000
TAGPP2-788C	TAGPP2	0.66 (16.7)	0.33 (8.4)	12	30	360	Clear	1000

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



### Labels for Laser Printers

#### Laser Tag Labels - 789 Polyester

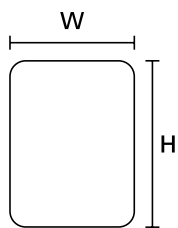
HellermannTyton white polyester labels are ideal for marking small electrical and electronic components, such as EPROMS', Integrated circuits, as well as the circuit board itself. Printed labels can withstand the soldering process and survive flux removal when the board is washed. HellermannTyton's 789 material is designed for use on flat surfaces and can also be used to identify connectors, buttons and just about anything requiring permanent, durable, high temperature and UV resistant marking.

#### Features and Benefits

- Laser printable white polyester has a smooth surface, allowing for the highest resolution and print contrast.
- The acrylic-based adhesive bonds to a wide variety of substrates and can withstand high temperatures long term.
- Lasertags are not affected by the high heat required in a laser printer.



<b>MATERIAL</b>	Type 789, Polyester (PET)
<b>Operating Temperature</b>	-40°F to +300°F (-40°C to +149°C)
<b>Adhesive</b>	Acrylic



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Labels per Row	Labels per Column	Labels per Sheet	Color	Qty. per Pkg.
TAG11L-789	TAG11L	0.65 (16.5)	0.20 (5.1)	10	48	480	White	5000
TAG13L-789	TAG13L	0.75 (19.1)	0.25 (6.4)	8	39	312	White	5000
TAG14L-789	TAG14L	1.00 (25.4)	0.38 (9.5)	7	25	175	White	5000
TAG15L-789	TAG15L	1.00 (25.4)	0.50 (12.7)	7	19	133	White	5000
TAG96L-789	TAG96L	1.88 (47.6)	0.25 (6.4)	4	36	144	White	1000
TAG69L-789	TAG69L	2.00 (50.8)	0.28 (7.0)	4	35	140	White	5000
TAG67L-789	TAG67L	2.87 (73.0)	2.87 (73.0)	2	25	50	White	1000
TAG66L-789	TAG66L	3.59 (91.4)	0.38 (9.5)	2	25	50	White	1000
TAG68L-789	TAG68L	3.80 (96.5)	0.28 (7.0)	2	35	70	White	2500
TAG45L-789	TAG45L	4.00 (101.6)	0.80 (20.3)	2	12	24	White	5000

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

# We just rewrote the book on label creation workflow.

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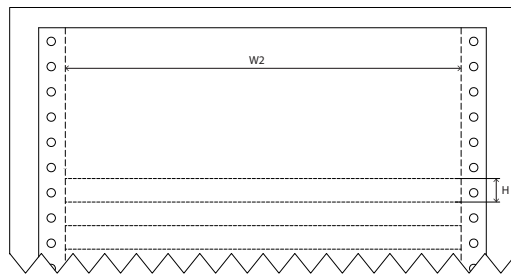
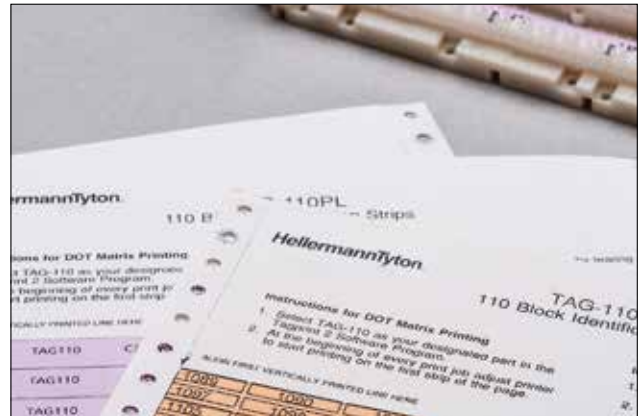
### Labels for Laser Printers

#### Termination Hardware Labeling

HellermannTyton's line of termination hardware labels features non-adhesive paper labels used to mark 110 wiring blocks. Color coded to meet ANSI/TIA/EIA-606 specifications, they come on pin-fed sheets to be used on dot matrix printers. The pin-fed margins can be removed for use in laser printers.

#### Features and Benefits

- Cardstock paper can be printed using a wide variety of printing methods, including laser, ink jet and dot matrix printers, which means more options for creating and mounting termination identification on 110 blocks.



<b>MATERIAL</b>	Paper (PAP)
<b>Operating Temperature</b>	-67°F to +428°F (-55°C to +220°C)
<b>Adhesive</b>	Acrylic



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Labels per Row	Labels per Column	Labels per Sheet	Color	Qty. per Pkg.
TAG110BL	TAG110	7.90 (200.7)	0.48 (12.1)	1	15	15	Blue	1000
TAG110BR		7.90 (200.7)	0.48 (12.1)	1	15	15	Brown	1000
TAG110GY		7.90 (200.7)	0.48 (12.1)	1	15	15	Gray	1000
TAG110GR		7.90 (200.7)	0.48 (12.1)	1	15	15	Green	1000
TAG110OR		7.90 (200.7)	0.48 (12.1)	1	15	15	Orange	1000
TAG110RD		7.90 (200.7)	0.48 (12.1)	1	15	15	Red	1000
TAG110PL		7.90 (200.7)	0.48 (12.1)	1	15	15	Violet	1000
TAG110WT		7.90 (200.7)	0.48 (12.1)	1	15	15	White	1000
TAG110YL		7.90 (200.7)	0.48 (12.1)	1	15	15	Yellow	1000

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

### Labels for Laser Printers

#### Self-Laminating Laser Tags

HellermannTyton's self-laminating labels are used for marking wires and cable. The clear tail overlaps and protects the printed information from abrasion, chemicals and solvents and resists UV exposure. When printed using HellermannTyton's thermal transfer printers, clear marking and high high-contrast imaging against the wire make this the perfect choice for durable identification.

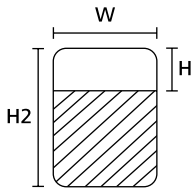
#### Features and Benefits

- Laser printable self-laminating polyester has a smooth surface, allowing for the highest resolution and print contrast.
- The material is 1.0 mil thick, allowing it to conform around wires and cable.
- The acrylic-based adhesive bonds to a wide variety of substrates and can withstand high temperatures long term.
- Lasertags are not affected by the high heat required in a laser printer.



<b>MATERIAL</b>	Type 105, Polyester (PET), white (WH)
<b>Operating Temperature</b>	-40°F to +300°F (-40°C to +149°C)
<b>Adhesive</b>	Acrylic

**RoHS** ✓



PART NO.	TYPE	Label Width (W) in. (mm)	Printable Area Height (H) in. (mm)	Label Height (H2) in. (mm)	Vertical Repeat in. (mm)	Horizontal Repeat in. (mm)	Liner Width in. (mm)	Labels per Row	Color	Qty. per Roll
TAG26L-105	TAG26L	0.50 (12.7)	0.38 (9.5)	.75 (19.1)	0.75 (19.0)	1.90 (48.2)	8.50 (215.0)	16	White	5000
TAG2L-105	TAG2L	0.50 (12.7)	0.50 (12.7)	1.43 (36.5)	1.43 (36.4)	0.50 (12.7)	8.50 (215.0)	16	White	5000
TAG5L-105	TAG5L	0.80 (20.3)	0.50 (12.7)	1.43 (36.5)	1.43 (36.4)	0.90 (22.9)	8.50 (215.0)	8	White	5000
TAG65L-105	TAG65L	0.81 (20.7)	0.81 (20.7)	2.13 (54.1)	2.13 (53.9)	0.81 (20.6)	8.50 (215.0)	9	White	1000
TAG51L-105	TAG51L	1.00 (25.4)	0.35 (8.9)	.75 (19.1)	0.75 (19.0)	1.00 (20.3)	8.50 (215.0)	8	White	5000
TAG49L-105	TAG49L	1.00 (25.4)	0.35 (8.9)	1.0 (25.4)	1.00 (25.4)	1.00 (25.4)	8.50 (215.0)	8	White	2500
TAG63L-105	TAG63L	1.00 (25.4)	0.50 (12.7)	1.33 (33.7)	1.33 (33.7)	1.00 (25.4)	8.50 (215.0)	8	White	2500

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

### Labels for Laser Printers

#### Self-Laminating Laser Tags

<b>PART NO.</b>	<b>TYPE</b>	<b>Label Width (W) in. (mm)</b>	<b>Printable Area Height (H) in. (mm)</b>	<b>Label Height (H2) in. (mm)</b>	<b>Vertical Repeat in. (mm)</b>	<b>Horizontal Repeat in. (mm)</b>	<b>Liner Width in. (mm)</b>	<b>Labels per Row</b>	<b>Color</b>	<b>Qty. per Roll</b>
<b>TAG9L-105</b>	<b>TAG9L</b>	1.00 (25.4)	1.00 (25.4)	2.25 (57.2)	2.25 (57.1)	1.10 (27.9)	8.50 (215.0)	7	White	1000
<b>TAG50L-105</b>	<b>TAG50L</b>	1.00 (25.4)	1.00 (25.4)	3.16 (80.3)	3.16 (80.4)	1.00 (25.4)	8.50 (215.0)	8	White	1000
<b>TAG64L-105</b>	<b>TAG64L</b>	1.17 (29.7)	0.83 (21.1)	3.33 (84.6)	3.33 (84.6)	1.17 (29.7)	8.50 (215.0)	6	White	1000
<b>TAG1L-105</b>	<b>TAG1L</b>	1.90 (48.2)	0.75 (19.1)	3.25 (82.6)	3.35 (85.1)	2.00 (50.8)	8.50 (215.0)	4	White	1000
<b>TAG52L-105</b>	<b>TAG52L</b>	2.00 (50.8)	0.47 (11.9)	1.33 (33.8)	1.33 (33.7)	2.00 (50.8)	8.50 (215.0)	3	White	1000
<b>TAG10L-105</b>	<b>TAG10L</b>	2.00 (50.8)	0.75 (19.1)	2.25 (57.2)	2.25 (57.2)	2.00 (50.8)	8.50 (215.0)	4	White	1000

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

# Identification

## Labels

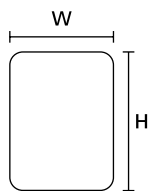
### Labels for Ink Jet Printers

#### Ink Jet Labels - Cardstock Material

HellermannTyton offers a series of technologically advanced labels for use on standard ink jet printers. The labels come on 8.5 x 11" sheets and are printable using HellermannTyton's TagPrint Pro software. A wide range of materials and sizes is available for wire and component marking. Even colors can be printed when used on a color ink jet printer. Ink jet labels are available in polyester or paper.

#### Features and Benefits

- Cardstock paper can be printed using a wide variety of printing methods, including laser, ink jet and dot matrix printers, which means more options for creating and mounting wall outlets and phones.



<b>MATERIAL</b>	Paper (PAP)
<b>Operating Temperature</b>	-40°F to +302°F (-40°C to +150°C)
<b>Adhesive</b>	Acrylic



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Labels per Row	Labels per Column	Labels per Sheet	Color	Qty. per Pkg.
TAGPHONE	TAGPHONE	1.75 (44.5)	0.38 (9.5)	4	21	84	White	1000

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

### Labels for Ink Jet Printers

#### Ink Jet Labels - 108 Material

These labels are made of general purpose paper for short term identification.

#### Features and Benefits

- Paper is a low-cost choice for indoor applications where exposure to chemicals, solvents and UV light are not an issue.
- When used with pigment-based inks, HellermannTyton ink jet labels offer superior non-smear marks.



<b>MATERIAL</b>	Type 108, Ink Jet White paper (WH)
<b>Operating Temperature</b>	-40°F to +199°F (-40°C to +93°C)
<b>Adhesive</b>	Acrylic



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Labels per Row	Labels per Column	Labels per Sheet	Color	Qty. per Pkg.
<b>TAGPP1J-108</b>	<b>TAGPP1J</b>	0.63 (15.9)	0.31 (7.9)	12	30	360	White	1000
<b>TAG59J-108</b>	<b>TAG59J</b>	4.00 (101.6)	1.50 (31.6)	2	7	14	White	3500

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

# Identification

## Labels

### Labels for Ink Jet Printers

#### Ink Jet Labels - 450 Material

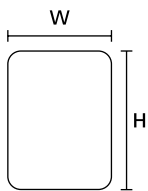
HellermannTyton white polyester labels are ideal for marking small electrical and electronic components, such as EPROMS', Integrated circuits, as well as the circuit board itself. Printed labels can withstand the soldering process and survive flux removal when the board is washed. HellermannTyton's 450 material is designed for use on flat surfaces and can also be used to identify connectors, buttons and just about anything requiring permanent, durable, high temperature marking.

#### Features and Benefits

- Ink jet printable polyester has a smooth surface, allowing for the highest resolution and print contrast.
- The acrylic-based adhesive bonds to a wide variety of substrates and resists abrasion.
- When used with black pigment-based inks, the material can withstand chemicals and solvents.



<b>MATERIAL</b>	Type 450, Polyethylene Terephthalate (PET)
<b>Operating Temperature</b>	-40°F to +302°F (-40°C to +150°C)
<b>Adhesive</b>	Acrylic



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Labels per Row	Labels per Column	Labels per Sheet	Color	Qty. per Pkg.
TAG11J-450	TAG11J	0.20 (5.1)	0.65 (16.1)	21	12	252	White	5000
TAG13J-450	TAG13J	0.25 (6.4)	0.75 (19.1)	26	12	312	White	5000
TAG14J-450	TAG14J	0.38 (9.5)	1.00 (25.4)	16	9	144	White	2500
TAG19J-450	TAG19J	0.38 (9.5)	2.00 (50.8)	15	4	60	Black	1200
TAG21J-450	TAG21J	0.50 (12.7)	0.75 (19.1)	13	12	156	White	5000
TAG15J-450	TAG15J	0.50 (12.7)	1.00 (25.4)	13	9	117	Black	5000
TAG28J-450	TAG28J	0.80 (20.3)	1.43 (36.5)	8	6	48	White	1000

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



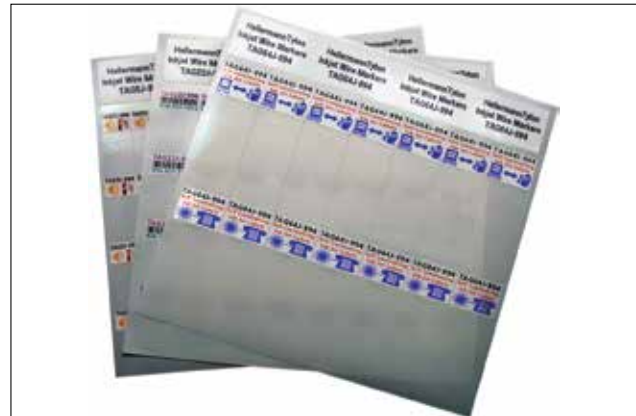
### Ink Jet Printer Labels

#### Ink Jet Self-Laminating Labels

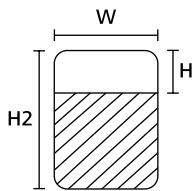
HellermannTyton's ink jet self-laminating labels are smear resistant, allowing them to be handled immediately. The labels are made of a heat resistant 1mm polyester film with a strong acrylic based adhesive. The printable area is a special ink-receptive film that absorbs the ink as it is printed on an ink jet printer.

#### Features and Benefits

- HellermannTyton Ink Jet labels are sheet fed for easy loading and fast printing.
- Ink Jet labels are made with high temperature materials and adhesives so that they will not be affected by the high heat of laser printing.
- Ink Jet labels are printable using toner for long term UV exposure.
- Ink Jet labels come in a variety of label sizes and types to fit most applications.



<b>MATERIAL</b>	Type 994, Polyethylene Terephthalate (PET)
<b>Operating Temperature</b>	-40°F to +302°F (-40°C to +150°C)
<b>Adhesive</b>	Acrylic



PART NO.	TYPE	Label Width (W) in. (mm)	Printable Area Height (H) in. (mm)	Label Height (H2) in. (mm)	Vertical Repeat in. (mm)	Horizontal Repeat in. (mm)	Liner Width in. (mm)	Labels per Row	Color	Qty. per Roll
TAG26J-994	TAG26J	0.50 (12.7)	0.35 (8.9)	0.75 (19.1)	0.75 (19.0)	0.50 (12.7)	8.50 (215.9)	16	White	2500
TAG5J-994	TAG5J	0.80 (20.3)	0.50 (12.7)	1.43 (36.3)	1.43 (36.3)	0.80 (20.3)	8.50 (215.0)	10	White	1000
TAG51J-994	TAG51J	1.00 (25.4)	0.35 (8.9)	0.75 (19.1)	0.75 (19.0)	1.00 (25.4)	8.50 (215.0)	8	White	1000
TAG22J-994	TAG22J	1.00 (25.4)	0.50 (12.7)	1.43 (36.3)	1.43 (36.3)	1.00 (25.4)	8.50 (215.0)	8	White	1000
TAG9J-994	TAG9J	1.00 (25.4)	0.75 (19.1)	2.25 (57.2)	2.25 (57.2)	1.00 (25.4)	8.50 (215.0)	8	White	1000
TAG64J-994	TAG64J	1.16 (29.6)	0.86 (21.8)	3.25 (82.6)	3.25 (82.6)	1.16 (29.6)	8.50 (215.0)	7	White	1000

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

### Labels for Dot Matrix Printers

#### Dot Matrix Labels - Polyester

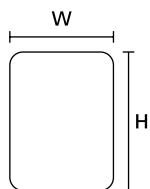
HellermannTyton white polyester labels are ideal for marking small electrical and electronic components, such as EPROMS', Integrated circuits, as well as the circuit board itself. Printed labels can withstand the soldering process and survive flux removal when the board is washed. HellermannTyton's 400 material is designed for use on flat surfaces and can also be used to identify connectors, buttons and just about anything requiring permanent, durable, high temperature and UV resistant marking.

#### Features and Benefits

- Tabtag dot matrix labels are specifically made for use in dot matrix printers for fast and easy printing.
- Labels come with a pin-feed margin to ensure they can easily be loaded into any dot matrix printing system.
- White dot matrix polyester has a matte finish, allowing for the highest resolution and print contrast using impact printers.
- The acrylic-based adhesive bonds to a wide variety of substrates and can withstand high temperatures long term.



<b>MATERIAL</b>	Type 400, Polyester, white (WH)
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +302°F (-40°C to +150°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Labels per Row	Labels per Column	Color	Qty. per Pkg.
TAG27-400*	TAG27	0.75 (19.1)	1.50 (38.1)	4	4	White	5000
TAG16-400*	TAG16	0.90 (22.8)	0.25 (6.4)	8	8	White	5000
TAG14-400	TAG14	1.00 (25.4)	0.38 (9.5)	7	7	White	5000
TAG15-400*	TAG15	1.00 (25.4)	0.50 (12.7)	7	7	White	5000
TAG44-400*	TAG44	1.88 (47.5)	1.88 (47.5)	1	1	White	5000

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

\*This product meets UL standards. Please see appendix for specific file numbers.



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### Labels for Dot Matrix Printers

#### Dot Matrix Labels - Metallized Polyester

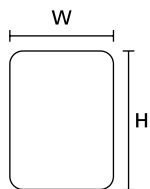
HellermannTyton's metallized polyester labels include a layer of metallic particles that give the appearance of being made of metal. Applications include asset tracking and product rating plates. The high operating temperature makes them suitable for use on electronic equipment. Great for replacing expensive metal stampings, engravings and even silk screened rating plates and can be placed on a wide variety of surfaces.

#### Features and Benefits

- Metallized dot matrix polyester has a matte finish, allowing for the highest resolution and print contrast using impact printers.
- The acrylic-based adhesive bonds to a wide variety of substrates and can withstand high temperatures long term.
- Tabtag dot matrix labels are specifically made for use in dot matrix printers for fast and easy printing.
- Labels come with a pin-feed margin to ensure they can easily be loaded into any dot matrix printing system.



<b>MATERIAL</b>	Type 600, Polyester, silver-matt (SR)
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +302°F (-40°C to +150°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Labels per Row	Labels per Column	Color	Qty. per Pkg.
<b>TAG27-600*</b>	<b>TAG27</b>	0.75 (19.1)	1.50 (38.1)	4	4	White	5000
<b>TAG15-600*</b>	<b>TAG15</b>	1.00 (25.4)	0.50 (12.7)	7	7	White	5000

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 \*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

### Labels for Dot Matrix Printers

#### Self Laminating Dot Matrix Labels

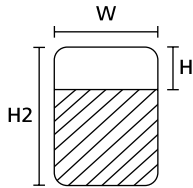
HellermannTyton's self-laminating labels are used for marking wires and cable. The clear tail overlaps and protects the printed information from abrasion, chemicals and solvents and resists UV exposure. When printed using any standard dot matrix printer, clear marking and high high-contrast imaging against the wire make this the perfect choice for durable identification.

#### Features and Benefits

- Dot matrix printable self-laminating vinyl has a smooth surface, allowing for the highest resolution and print contrast using an impact printer.
- The material is a conformable vinyl, allowing it to wrap and stay around wires and cable.
- The acrylic-based adhesive bonds to a wide variety of substrates and will remain in place long term.
- Tabtag dot matrix labels are specifically made for use in dot matrix printers for fast and easy printing.
- Labels come with a pin-feed margin to ensure that they can easily be loaded into any dot matrix printing system.



<b>MATERIAL</b>	Type 100, Vinyl (PVC), white (WH), self laminating
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-51°F to +200°F (-46°C to +93°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Printable Area Height (H) in. (mm)	Label Height (H2) in. (mm)	Vertical Repeat in. (mm)	Horizontal Repeat in. (mm)	Liner Width in. (mm)	Labels per Row	Color	Qty. per Roll
TAG26-100*	TAG26	0.50 (12.7)	0.38 (9.5)	0.75 (19.0)	1.00 (25.4)	0.50 (15.2)	9.30 (238.8)	14	White	5000
TAG2-100*	TAG2	0.50 (12.7)	0.50 (12.7)	1.44 (36.6)	1.50 (38.1)	0.50 (12.7)	8.90 (228.6)	16	White	5000
TAG25-100*	TAG25	0.75 (19.1)	0.50 (12.7)	1.75 (42.7)	2.00 (50.8)	0.85 (21.6)	8.90 (228.6)	9	White	5000
TAG5-100*	TAG5	0.80 (20.3)	0.50 (12.7)	1.44 (36.6)	1.50 (38.1)	0.90 (22.8)	6.30 (160.0)	6	White	5000
TAG22-100*	TAG22	1.00 (25.4)	0.50 (12.7)	1.44 (36.6)	1.50 (38.1)	1.00 (25.4)	8.90 (228.6)	8	White	5000
TAG9-100*	TAG9	1.00 (25.4)	0.75 (19.0)	2.25 (57.2)	2.50 (63.5)	1.00 (25.4)	8.90 (228.6)	8	White	5000
TAG3-100*	TAG3	1.00 (25.4)	1.00 (25.4)	3.75 (95.3)	4.00 (101.6)	1.00 (25.4)	8.90 (228.6)	8	White	2500

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

\*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

### Labels for Dot Matrix Printers

#### Self Laminating Dot Matrix Labels

PART NO.	TYPE	Label Width (W) in. (mm)	Printable Area Height (H) in. (mm)	Label Height (H2) in. (mm)	Vertical Repeat in. (mm)	Horizontal Repeat in. (mm)	Liner Width in. (mm)	Labels per Row	Color	Qty. per Roll
TAG23-100*	TAG23	1.00 (25.4)	1.00 (38.1)	7.43 (188.7)	7.50 (190.5)	1.00 (25.4)	9.50 (241.3)	8	White	2500
TAG1-100*	TAG1	1.90 (48.0)	0.75 (19.1)	3.19 (81.0)	3.50 (88.9)	2.00 (50.8)	9.50 (241.3)	4	White	2500
TAG24-100*	TAG24	2.00 (50.8)	0.50 (12.7)	1.44 (36.6)	1.50 (38.1)	0.90 (22.9)	8.90 (228.6)	4	White	5000
TAG10-100*	TAG10	2.00 (50.8)	0.75 (19.0)	2.25 (57.2)	2.50 (63.5)	2.00 (50.8)	8.90 (228.6)	4	White	2500
TAG6-100*	TAG6	2.00 (50.8)	1.50 (38.1)	3.75 (95.3)	4.00 (101.6)	2.00 (50.8)	8.90 (228.6)	4	White	2500

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

\*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

### Heat Shrinkable Labels

#### ShrinkTrak Heat Shrinkable Markers

HellermannTyton's ShrinkTrak™ heat shrinkable markers make it easy to mark wire, cable and other components. The military approved heat shrink tubing is flattened and assembled in a ladder style carrier system for easy printing using a thermal transfer printer. The ladder system creates a kit of markers that can be sorted, removed and applied in any order thus saving time, labor and speeding production.

#### Features and Benefits

##### Versatile

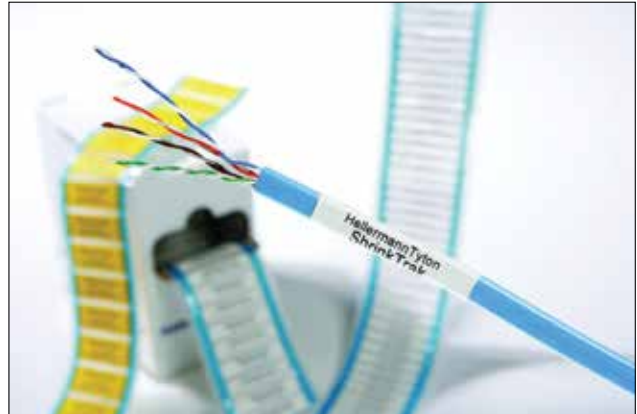
- Flexible, flame retardant, heat shrinkable polyolefin tubing meets all military specification.
- 3:1 shrink ratio enables a wide range of wire sizes to be covered.
- Standard colors - yellow, white and black.
- Larger pack options result in less box changes.

##### High Performance Design

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

##### Reduce Printer Jams

- Custom box opening allows markers to dispense directly into HellermannTyton thermal transfer printers.
- Dispense markers faster and easier with waxed core dispenser.



<b>MATERIAL</b>	Polyolefin, cross-linked (PO-X)
<b>Thickness (T)</b>	.003 "
<b>Min. Shrink Temperature</b>	+194 °F (+90 °C)
<b>Operating Temperature</b>	-67°F to +275°F (-55°C to +135°C)
<b>Flammability</b>	UL 224 VW-1
<b>Flexibility</b>	Flexible
<b>Abrasion Resistance</b>	Medium
<b>Solvent Resistance</b>	Good



PART NO.	TYPE	Outside Diameter Max. in. (mm)	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Center Slit	Color	Quantity per Box
553-50063	HST3-1WH-3S	0.13 (3.2)	0.48 (12.1)	0.24 (5.7)	Triple	White	1000
553-50088		0.13 (3.2)	0.48 (12.1)	0.24 (5.7)	Triple	White	4000
553-50211		0.13 (3.2)	0.48 (12.1)	0.60 (15.2)	-	White	4000
553-50181	HST3-1BK-3S	0.13 (3.2)	0.48 (12.1)	1.90 (48.3)	-	Black	1000
553-50075	HST3-1WH-2S	0.13 (3.2)	0.63 (16.0)	0.24 (5.7)	Double	White	3000
553-50070		0.13 (3.2)	0.63 (16.0)	0.24 (5.7)	Double	White	750
553-50077	HST3-1YE-2S	0.13 (3.2)	0.63 (16.0)	0.24 (5.7)	Double	Yellow	3000
553-50071		0.13 (3.2)	0.63 (16.0)	0.24 (5.7)	Double	Yellow	750
553-50180	HST3-1BK-2S	0.13 (3.2)	0.63 (16.1)	0.60 (15.2)	-	Black	750

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

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### Heat Shrinkable Labels

#### ShrinkTrak Heat Shrinkable Markers

PART NO.	TYPE	Outside Diameter Max. in. (mm)	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Center Slit	Color	Quantity per Box
553-50074	HST3-1WH-S	0.13 (3.2)	0.95 (24.1)	0.24 (5.7)	Single	White	2000
553-50004		0.13 (3.2)	0.95 (24.1)	0.24 (5.7)	Single	White	500
553-50067		0.13 (3.2)	0.95 (24.1)	0.24 (5.7)	Single	White	5000
553-50076	HST3-1YE-S	0.13 (3.2)	0.95 (24.1)	0.24 (5.7)	Single	Yellow	2000
553-50007		0.13 (3.2)	0.95 (24.1)	0.24 (5.7)	Single	Yellow	500
553-50179	HST3-1BK-S	0.13 (3.2)	0.95 (24.1)	0.42 (10.7)	-	Black	500
553-50001	HST3-1BK	0.13 (3.2)	1.90 (48.3)	0.24 (5.7)	-	Black	250
553-50003	HST3-1WH	0.13 (3.2)	1.90 (48.3)	0.24 (5.7)	-	White	1000
553-50002		0.13 (3.2)	1.90 (48.3)	0.24 (5.7)	-	White	250
553-50078		0.13 (3.2)	1.90 (48.3)	0.24 (5.7)	-	White	2500
553-50006	HST3-1YE	0.13 (3.2)	1.90 (48.3)	0.24 (5.7)	-	Yellow	1000
553-50005		0.13 (3.2)	1.90 (48.3)	0.24 (5.7)	-	Yellow	250
553-50239	HST4.8-1YE-3S	0.19 (4.7)	0.48 (12.1)	0.31 (7.9)	-	Yellow	1000
553-50064	HST4.8-1.6WH-3S	0.19 (4.7)	0.48 (12.1)	0.31 (7.9)	Triple	White	1000
553-50081		0.19 (4.7)	0.48 (12.1)	0.31 (7.9)	Triple	White	4000
553-50184	HST4.8-1.6BK-3S	0.19 (4.7)	0.48 (12.1)	0.60 (15.2)	-	Black	1000
553-50068	HST4.8-1.6WH-2S	0.19 (4.7)	0.63 (16.0)	0.31 (7.9)	Double	White	750
553-50072		0.19 (4.7)	0.63 (16.1)	0.31 (7.9)	Double	White	3000
553-50073	HST4.8-1.6YE-2S	0.19 (4.7)	0.63 (16.1)	0.31 (7.9)	Double	Yellow	3000
553-50069		0.19 (4.7)	0.63 (16.1)	0.31 (7.9)	Double	Yellow	750
553-50176	HST4.8-1.6WH-S	0.19 (4.7)	0.95 (24.1)	0.31 (7.9)	Single	White	10000
553-50080		0.19 (4.7)	0.95 (24.1)	0.31 (7.9)	Single	White	2000
553-50011		0.19 (4.7)	0.95 (24.1)	0.31 (7.9)	Single	White	500
553-50014	HST4.8-1.6YE-S	0.19 (4.7)	0.95 (24.1)	0.31 (7.9)	Single	Yellow	500
553-50203	HST4.8-1.6WHAP	0.19 (4.7)	1.90 (48.3)	0.31 (7.9)	-	White	1000
553-50008	HST4.8-1.6BK	0.19 (4.7)	1.90 (48.3)	0.31 (7.9)	-	Black	250
553-50010	HST4.8-1.6WH	0.19 (4.7)	1.90 (48.3)	0.31 (7.9)	-	White	1000
553-50009		0.19 (4.7)	1.90 (48.3)	0.31 (7.9)	-	White	250
553-50177		0.19 (4.7)	1.90 (48.3)	0.31 (7.9)	-	White	3000
553-50079		0.19 (4.7)	1.90 (48.3)	0.31 (7.9)	-	White	5000
553-50012	HST4.8-1.6YE	0.19 (4.7)	1.90 (48.3)	0.31 (7.9)	-	Yellow	250
553-50090	HST4.8-1.6WH	0.19 (4.7)	1.90 (48.3)	0.42 (10.7)	-	White	2500
553-50195		0.19 (4.7)	1.90 (48.3)	0.60 (15.2)	-	White	6400
553-50213	HST4.8-1.6WH-S	0.19 (4.7)	1.90 (48.3)	1.20 (30.5)	-	White	10000
553-50178	HST6-2BK-3S	0.25 (6.4)	0.48 (12.1)	0.42 (10.7)	-	Black	1000

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### Heat Shrinkable Labels

#### ShrinkTrak Heat Shrinkable Markers

PART NO.	TYPE	Outside Diameter Max. in. (mm)	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Center Slit	Color	Quantity per Box
553-50210	HST6-2YE-3S	0.25 (6.4)	0.48 (12.1)	0.42 (10.7)	-	Yellow	4000
553-50089	HST6-2WH-3S	0.25 (6.4)	0.48 (12.1)	0.42 (10.7)	Triple	White	4000
553-50212		0.25 (6.4)	0.48 (12.1)	0.77 (19.6)	-	White	4000
553-50242	HST6-2WH-S	0.25 (6.4)	0.63 (16.0)	0.42 (10.7)	Single	White	10000
553-50065	HST6-2WH-3S	0.25 (6.4)	0.63 (16.0)	0.77 (19.6)	Triple	White	1000
553-50186	HST6-2BK-2S	0.25 (6.4)	0.63 (16.1)	0.31 (7.9)	-	Black	750
553-50082	HST6-2WH-2S	0.25 (6.4)	0.63 (16.1)	0.42 (10.7)	Double	White	750
553-50083	HST6-2YE-2S	0.25 (6.4)	0.63 (16.1)	0.42 (10.7)	Double	Yellow	750
553-50084	HST6-2WH-S	0.25 (6.4)	0.95 (24.1)	0.42 (10.7)	Single	White	2000
553-50019		0.25 (6.4)	0.95 (24.1)	0.42 (10.7)	Single	White	500
553-50085	HST6-2YE-S	0.25 (6.4)	0.95 (24.1)	0.42 (10.7)	Single	Yellow	2000
553-50022		0.25 (6.4)	0.95 (24.1)	0.42 (10.7)	Single	Yellow	500
553-50015	HST6-2BK	0.25 (6.4)	1.90 (48.3)	0.42 (10.7)	-	Black	250
553-50017	HST6-2WH	0.25 (6.4)	1.90 (48.3)	0.42 (10.7)	-	White	1000
553-50204	HST6-2WHAP	0.25 (6.4)	1.90 (48.3)	0.42 (10.7)	-	White	1000
553-50016	HST6-2WH	0.25 (6.4)	1.90 (48.3)	0.42 (10.7)	-	White	250
553-50018		0.25 (6.4)	1.90 (48.3)	0.42 (10.7)	-	White	5000
553-50021	HTS6-2YE	0.25 (6.4)	1.90 (48.3)	0.42 (10.7)	-	Yellow	1000
553-50020	HST6-2YE	0.25 (6.4)	1.90 (48.3)	0.42 (10.7)	-	Yellow	250
553-50196	HST6-2WH	0.25 (6.4)	1.90 (48.3)	0.60 (15.2)	-	White	5300
553-50189	HST9-3BK-3S	0.38 (9.5)	0.48 (12.1)	0.24 (6.0)	-	Black	1000
553-50066	HST9-3WH-3S	0.38 (9.5)	0.48 (12.1)	0.60 (15.2)	Triple	White	1000
553-50251	HST9-3WH-2S	0.38 (9.5)	0.63 (16.1)	0.60 (15.2)	-	White	750
553-50025	HST9-3WH-S	0.38 (9.5)	0.95 (24.1)	0.60 (15.2)	Single	White	500
553-50027	HST9-3YE-S	0.38 (9.5)	0.95 (24.1)	0.60 (15.2)	Single	Yellow	500
553-50023	HST9-3BK	0.38 (9.5)	1.90 (48.3)	0.60 (15.2)	-	Black	250
553-50192	HST9-3WH	0.38 (9.5)	1.90 (48.3)	0.60 (15.2)	-	White	1000
553-50024		0.38 (9.5)	1.90 (48.3)	0.60 (15.2)	-	White	250
553-50026	HST9-3YE	0.38 (9.5)	1.90 (48.3)	0.60 (15.2)	-	Yellow	250
553-50236	HST9-3WH	0.38 (9.5)	1.90 (48.3)	0.60 (15.2)	-	White	2500
553-50205	HST9-3WHAP	0.38 (9.5)	1.90 (48.3)	0.60 (15.2)	-	White	250
553-50086	HST12-4WH-3S	0.50 (12.7)	0.48 (12.1)	0.77 (19.6)	Triple	White	1000
553-50087	HST12-4YE-3S	0.50 (12.7)	0.48 (12.1)	0.77 (19.6)	Triple	Yellow	1000

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### Heat Shrinkable Labels

#### ShrinkTrak Heat Shrinkable Markers

PART NO.	TYPE	Outside Diameter Max. in. (mm)	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Center Slit	Color	Quantity per Box
553-50250	HST12-4WH-S	0.50 (12.7)	0.63 (16.1)	0.77 (19.6)	-	White	750
553-50232		0.50 (12.7)	0.95 (24.1)	0.77 (19.6)	Single	White	2000
553-50030		0.50 (12.7)	0.95 (24.1)	0.77 (19.6)	Single	White	500
553-50032	HST12-4YE-S	0.50 (12.7)	0.95 (24.1)	0.77 (19.6)	Single	Yellow	500
553-50193	HST12-4WH	0.50 (12.7)	1.90 (48.3)	0.42 (10.7)	-	White	1000
553-50028	HST12-4BK	0.50 (12.7)	1.90 (48.3)	0.77 (19.6)	-	Black	250
553-50231	HST12-4WH	0.50 (12.7)	1.90 (48.3)	0.77 (19.6)	-	White	1000
553-50029		0.50 (12.7)	1.90 (48.3)	0.77 (19.6)	-	White	250
553-50206	HST12-4WHAP	0.50 (12.7)	1.90 (48.3)	0.77 (19.6)	-	White	250
553-50031	HST12-4YE	0.50 (12.7)	1.90 (48.3)	0.77 (19.6)	-	Yellow	250
553-50222	HST18-6BK-S	0.75 (19.1)	0.95 (24.1)	0.24 (6.0)	-	Black	500
553-50241	HST18-6YE-S	0.75 (19.1)	0.95 (24.1)	1.20 (30.5)	-	Yellow	2000
553-50234	HST18-6WH-S	0.75 (19.1)	0.95 (24.1)	1.20 (30.5)	Single	White	2000
553-50035		0.75 (19.1)	0.95 (24.1)	1.20 (30.5)	Single	White	500
553-50037	HST18-6YE-S	0.75 (19.1)	0.95 (24.1)	1.20 (30.5)	Single	Yellow	500
553-50199	HST18-6WH	0.75 (19.1)	1.90 (48.3)	0.60 (15.2)	-	White	2200
553-50033	HST18-6BK	0.75 (19.1)	1.90 (48.3)	1.20 (30.5)	-	Black	250
553-50233	HST18-6WH	0.75 (19.1)	1.90 (48.3)	1.20 (30.5)	-	White	1000
553-50034		0.75 (19.1)	1.90 (48.3)	1.20 (30.5)	-	White	250
553-50036	HST18-6YE	0.75 (19.1)	1.90 (48.3)	1.20 (30.5)	-	Yellow	250
553-50240		0.75 (19.1)	1.90 (48.3)	1.20 (30.5)	-	Yellow	1000
553-50223	HST24-8BK-S	1.00 (25.4)	0.95 (24.1)	0.31 (7.9)	-	Black	500
553-50040	HST24-8WH-S	1.00 (25.4)	0.95 (24.1)	1.69 (42.9)	Single	White	500
553-50042	HST24-8YE-S	1.00 (25.4)	0.95 (24.1)	1.69 (42.9)	Single	Yellow	500
553-50038	HST24-8BK	1.00 (25.4)	1.90 (48.3)	1.69 (42.9)	-	Black	250
553-50039	HST24-8WH	1.00 (25.4)	1.90 (48.3)	1.69 (42.9)	-	White	250
553-50041	HST24-8YE	1.00 (25.4)	1.90 (48.3)	1.69 (42.9)	-	Yellow	250
553-50237	HST24-8WH	1.00 (25.4)	1.90 (48.3)	1.69 (42.9)	-	White	1000
553-50226	HFST39-13WH-S	1.50 (38.1)	0.95 (24.1)	2.26 (57.4)	Single	White	300
553-50227	HFST39-13YE-S	1.50 (38.1)	0.95 (24.1)	2.26 (57.4)	Single	Yellow	300
553-50209	HST39-13WH	1.50 (38.1)	1.90 (48.3)	2.26 (57.4)	-	White	150
553-50225	HFST39-13YE	1.50 (38.1)	1.90 (48.3)	2.26 (57.4)	-	Yellow	150

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# Identification

## Labels

### Foam Nameplate Labels

#### Rectangular Foam Nameplates

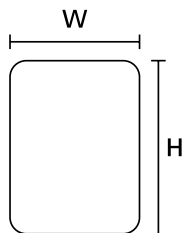
Foam Nameplate labels are designed to replace plastic and metal engraved phenolic plates commonly found on electrical control panels. The labels provide the look and feel of a plastic engraved or metal plate, but at a fraction of the cost. Labels can be printed using HellermannTyton TagPrint Pro labeling software and can include printed logos, bar codes and text of almost any size and type.

#### Features and Benefits

- Foam Nameplate labels are less costly than plastic or metal engraved plates, saving material costs.
- Foam Nameplate labels conform to textured and other low energy surfaces ensuring the labels stay in place for the life of the product.
- Labels are UV and chemical resistant for long life in an industrial environment.
- Foam nameplate labels are printable using a thermal transfer printer for complete control and on-demand creation of labels.



<b>MATERIAL</b>	Polyester (PET)
<b>Adhesive</b>	Acrylate with base of acrylic foam
<b>Operating Temperature</b>	-40°F to +176°F (-40°C to +80°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Roll
596-00503	NPL27X13BK	1.06 (27.0)	0.49 (11.4)	Black	500
596-00500	NPL27X13WH	1.06 (27.0)	0.49 (11.4)	White	500
596-00504	NPL51X25WH	2.00 (50.8)	1.00 (25.4)	White	500
596-00507	NPL51X25BK	2.00 (50.8)	1.00 (50.8)	Black	500
596-00417	NPLH76X101WH	3.00 (76.2)	4.00 (101.6)	White	150

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

### Foam Nameplate Labels

#### Foam Button Nameplates

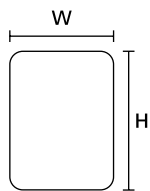
Foam Nameplate labels are designed to replace plastic and metal engraved phenolic plates commonly found on electrical control panels. The labels provide the look and feel of a plastic engraved or metal plate, but at a fraction of the cost. Labels can be printed using HellermannTyton Tagprint Pro labeling software and can include printed logos, barcodes and text of almost any size and type.

#### Features and Benefits

- Foam Nameplate labels are less costly than plastic or metal engraved plates, saving material costs.
- Foam Nameplate labels conform to textured and other low energy surfaces ensuring the labels stay in place for the life of the product.
- Labels are UV and chemical resistant for long life in an industrial environment.
- Foam Nameplate labels are printable using a thermal transfer printer for complete control and on-demand creation of labels.



<b>MATERIAL</b>	Polyester (PET)
<b>Adhesive</b>	Acrylate with base of acrylic foam
<b>Operating Temperature</b>	-40°F to +176°F (-40°C to +80°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Mounting Hole Dia. in. (mm)	Color	Qty. per Roll
596-00916	NPLH31X48BK22.5	1.20 (30.5)	1.90 (30.5)	0.88 (22.4)	Black	250
596-00915	NPLH31X48WH22.5	1.20 (30.5)	1.90 (30.5)	0.88 (22.4)	White	250
596-00407	NPLH31X38BK22.5	1.20 (30.5)	1.50 (38.1)	0.88 (22.4)	Black	250
596-00404	NPLH31X38WH22.5	1.20 (30.5)	1.50 (38.1)	0.88 (22.4)	White	250
596-00413	NPLH31X31BK22.5	1.25 (31.7)	1.25 (31.7)	0.88 (22.4)	Black	250
596-00412	NPLH31X31WH22.5	1.25 (31.7)	1.25 (31.7)	0.88 (22.4)	White	250
596-00415	NPLH44X44BK30.5	1.75 (44.4)	1.75 (44.4)	1.20 (30.5)	Black	250
596-00414	NPLH44X44WH30.5	1.75 (44.4)	1.75 (44.4)	1.20 (30.5)	White	250

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

### Foam Nameplate Labels

#### Emergency Stop Labels

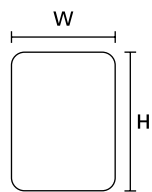
Foam Nameplate labels are designed to replace plastic and metal engraved phenolic plates commonly found on electrical control panels. The labels provide the look and feel of a plastic engraved or metal plate, but at a fraction of the cost. Labels can be printed using HellermannTyton TagPrint® Pro labeling software and can include printed logos, barcodes and text of almost any size and type.

#### Features and Benefits

- Foam Nameplate labels are less costly than plastic or metal engraved plates, saving material costs.
- Foam Nameplate labels conform to textured and other low energy surfaces ensuring the labels stay in place for the life of the product.
- Labels are UV and chemical resistant for long life in an industrial environment.



<b>MATERIAL</b>	Polyester (PET)
<b>Adhesive</b>	Acrylate with base of acrylic foam
<b>Operating Temperature</b>	-40°F to +176°F (-40°C to +80°C)



<b>PART NO.</b>	<b>TYPE</b>	<b>Label Width (W) in. (mm)</b>	<b>Label Height (H) in. (mm)</b>	<b>Mounting Hole Dia. in. (mm)</b>	<b>Color</b>	<b>Qty. per Roll</b>
596-00202	NPL60X60YE	2.38 (60.3)	2.38 (60.3)	1.20 (30.5)	Yellow	100

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

### Hand Writable Labels and Tags

#### Warning Signs

HellermannTyton's Hand Writable Markers are made from a flexible vinyl film and used to mark wire and cable. The self-laminating labels have a clear tail which seals the legend under clear vinyl, maintaining the quality of the labels.

#### Features and Benefits

- Clear laminating plastic flap permanently protects the writing and data marked on the tag.
- Mounting holes for easy mounting using standard cable ties.
- Markers can be mounted in any direction, either vertically, horizontally, as a wrap-around identification plate or as a flag for the best visual position on the cable assembly.



<b>MATERIAL</b>	Polyvinylchloride (PVC)
<b>Operating Temperature</b>	-40°F to +257°F (-40°C to +125°C)



PART NO.	TYPE	Description	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.
CT0753X2	CT0753	Write-on tag with blank lines - nonadhesive	3.00 (76.2)	0.75 (11.1)	Orange	25
CTA0753X2	CTA0753	Write-on tag with blank lines - adhesive	3.00 (76.2)	1.00 (25.4)	Orange	25
CT2012X2	CT2012	Write-on tag for telephone cable - nonadhesive	3.50 (88.9)	1.50 (38.1)	Yellow	25
CT2003X2	CT2003	Write-on tag for fiber optic cable - nonadhesive	3.50 (88.9)	2.00 (6.4)	Orange	25
CT1503X2	CT1503	Write-on tag with blank lines - nonadhesive	4.00 (101.6)	1.50 (38.1)	Orange	25
CTA1503X2	CTA1503	Write-on tag with blank lines - adhesive	4.00 (101.6)	2.20 (55.9)	Orange	25

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

# Identification

## Labels

### Hand Writable Labels and Tags

#### Ground Wire Tags

HellermannTyton ground wire tags are fabricated using .035" thick polyethylene. Vinyl is rated for outdoor use, 5-7 years. Vinyl treated with titanium dioxide ultraviolet inhibitors.

#### Features and Benefits

- Mounting hole for easy attachment using standard cable ties.



<b>MATERIAL</b>	Polyethylene (PE)
<b>Operating Temperature</b>	-150°F to +149°F (-101°C to +65°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.
GWC003X2	GW	3.00 (76.2)	1.50 (38.1)	Orange	25
GWT003X2		3.00 (76.2)	1.50 (38.1)	Orange	25

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

### Hand Writable Labels and Tags

#### Cable Markers - Polyethylene

HellermannTyton's cable markers are made from .05" thick polyethylene and can be marked using a permanent felt tip marker.

#### Features and Benefits

- Manufactured from 0.2" thick polyethylene for long term durability.
- Mounting holes for easy mounting using standard cable ties.
- Markers can be mounted in any direction, either vertically, horizontally, as a wrap-around identification plate or as a flag for the best visual position on the cable assembly.



<b>MATERIAL</b>	Polyethylene (PE)
<b>Operating Temperature</b>	-150°F to +149°F (-101°C to +65°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.
FOM-75	FOM	1.50 (38.1)	0.75 (19.1)	Orange	25
FOM-150		2.25 (57.2)	1.50 (38.1)	Orange	25
FOM-175		3.50 (88.9)	1.75 (44.5)	Orange	25

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

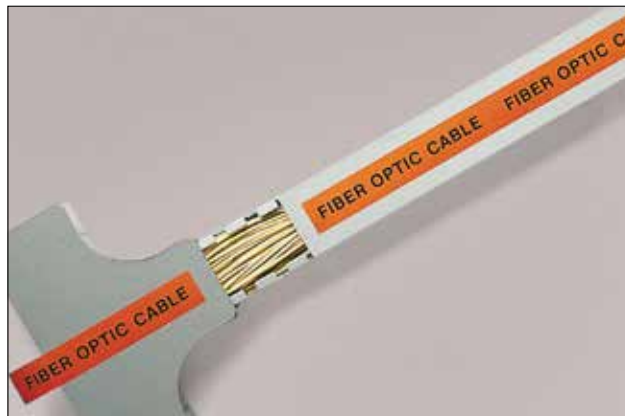
### Hand Writable Labels and Tags

#### Fiber Optic Cable Tape

Designed to be used on the Lightguide Fiber Optic Protection System to identify the routing of fiber optic cable. It is a 1" wide range vinyl with black lettering that states, "FIBER OPTIC CABLE." The legend is repeated every six inches.

#### Features and Benefits

- Markers are pre-coiled so that they can be snapped into place over the cable without the use of adhesives.
- Non-adhesive design means that the markers can be installed at any temperature or over dirty or oily surfaces.
- Pre-printed text is protected by a thick layer of clear acrylic which provides UV protection and abrasion resistance.



<b>MATERIAL</b>	Vinyl
<b>Operating Temperature</b>	-18°F to +200°F (-29°C to +93°C)



<b>PART NO.</b>	<b>TYPE</b>	<b>Label Width (W) in. (mm)</b>	<b>Roll Length (L) ft. (m)</b>	<b>Color</b>
TFOT-1	TFOT1	1.0 (25.4)	54.0 (16.5)	Orange

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



### Hand Writable Labels and Tags

#### Identification Marker Plates

Identification Marker Plates can be mounted in any direction, either vertically or horizontally as flags, tags, or wraparound identification plates. They can be hot stamped or marked with HellermannTyton marking pens (T82-S), thermal transfer labels, or laser labels. The markers are manufactured from nylon and are white in color.

#### Features and Benefits

- Identification Marker Plates can be marked with a permanent pen, printed labels or hot stamped for a wide variety of labeling options.
- Any size bundle diameter can be marked because it is only dependent upon the length of the cable tie selected, provided the cable tie width does not exceed 0.29".
- The marker plates are stamped from nylon, making them a durable and long term method of identification.
- The mounting holes are positioned to allow the marker to be mounted as a flag, tag or wrapped around the cable or bundle for a wide variety of installed positions.



<b>MATERIAL</b>	Polyamide 6.6 (PA66)
<b>Flammability</b>	UL 94 V2
<b>Operating Temperature</b>	-40°F to +185°F (-40°C to +85°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Width (W2) in. (mm)	Color	Qty. per Pkg.
IMP1.510C2	IMP1.5	1.50 (19.1)	0.75 (19.1)	1.03 (26.2)	White	100
IMP1.7510C2	IMP1.75	1.75 (44.5)	0.75 (19.1)	1.28 (32.5)	White	100
IMP210C2	IMP2	2.00 (19.3)	0.75 (19.1)	1.53 (38.9)	White	100
IMP2.510C2	IMP2.5	2.50 (19.3)	0.75 (19.1)	2.03 (51.6)	White	100
IMP2.5W1.7510C2		2.50 (44.7)	1.75 (44.5)	2.03 (51.6)	White	100
IMP2.510M4		2.50 (63.5)	0.75 (19.1)	2.03 (51.6)	White	1000
IMP2.5W1.7510H4		2.50 (63.5)	1.75 (44.5)	2.03 (51.6)	White	500
IMP3.510C2	IMP3.5	3.50 (19.3)	0.75 (19.1)	3.03 (51.6)	White	100

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

### Hand Writable Labels and Tags

#### Q-Tags

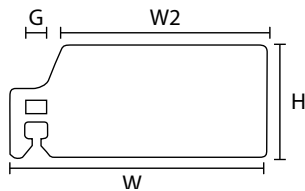
Q-tags are used to identify a cable or a cable bundle and is secured with a Q-tie. The Q-tag's flag design allows the user to quickly read or scan the printed information. The tags can be marked by hand with a marker pen (T82 series) or with a printed adhesive label. HellermannTyton offers a complete printing solution for Q-tags: printers, labels, ribbons, and market leading label design software, TagPrint Pro. Using Q-ties and Q-tags gives users the confidence that cables and cable bundles are safely secured and the text is highly visible.

#### Features and Benefits

- Opening on the tag allows the Q Tie to be easily inserted, providing a secure identification solution



<b>MATERIAL</b>	Polyamide 6.6 (PA66)
<b>Flammability</b>	UL 94 V2
<b>Operating Temperature</b>	-40°F to +185°F (-40°C to +85°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Writable Area Width (W2) in. (mm)	Cable Tie Width Max. (G) in. (mm)	Color	Qty. per Pkg.
151-10952	QT7040S	3.46 (88.0)	1.65 (42.0)	1.57 (40.00)	0.14 (3.60)	White	50
151-10950	QT7016R	3.94 (100.0)	0.71 (18.0)	0.63 (16.00)	0.20 (4.70)	White	50
151-10951	QT7040R	3.94 (100.0)	1.65 (42.0)	1.57 (40.00)	0.20 (4.70)	White	50
151-10953	QT10065R	5.31 (135.0)	2.64 (67.1)	2.58 (65.00)	0.20 (4.70)	White	25

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

### Hand Writable Labels and Tags

#### Rite-On® Self-Laminating Labels and Dispenser

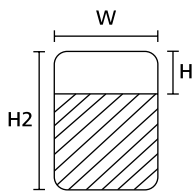
Rite-On Markers are made from a flexible vinyl film and used to mark wire and cable. The self-laminating labels have a clear tail which seals the legend under clear vinyl, maintaining the quality of the labels. The Rite-On markers are packaged in a reusable dispenser made from high impact plastic which is resistant to oils and grease.

#### Features and Benefits

- Compact to easily fit in pants or shirt pockets.
- Dispenser can be reloaded over and over, making it cost effective to use.
- Dispenser edge allows easy removal of label liner.
- Dispenser protects labels from dirt and moisture before use, extending the life and quality of the labels.



<b>MATERIAL</b>	Type 100, Vinyl (PVC), white (WH), self laminating
<b>Operating Temperature</b>	-51°F to +200°F (-46°C to +93°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Writable Area Height (H) in. (mm)	Label Height (H2) in. (mm)	Wire Size (AWG)	Min. Wire Size (in <sup>2</sup> )	Qty. per Roll
RO514*	RO514	0.75 (19.1)	0.38 (9.5)	1.25 (31.8)	14 to 8	0.053	200
RO512*	RO512	0.75 (19.1)	0.50 (12.7)	1.876 (47.6)	8 to 4	0.263	150
RO175WP*	RO175WP	0.75 (19.1)	0.75 (19.1)	3.0 (76.2)	4 to 4/0	0.330	90
RO175*	RO175	0.75 (19.1)	0.75 (19.1)	3.0 (76.2)	4 to 4/0	0.330	90

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

\*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

### Hand Writable Labels and Tags

#### Rite-On® Marker Refill Rolls

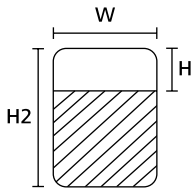
HellermannTyton's Rite-On markers are made from a flexible vinyl film and are used to mark wire and cable. The self-laminating labels have a clear tail which seals the legend under clear vinyl, maintaining the quality of the labels. The Rite-On markers are packaged in a reusable dispenser made from high-impact plastic which is resistant to oils and grease.

#### Features and Benefits

- Easily and conveniently fits in a pants or shirt pocket.
- Once loaded, unit allows minimal label exposure to dust and moisture.
- Can be used with standard ball point pens or HellermannTyton nylon marking pens.
- Excess liner is easily cut-off by tearing it over the edge guide at the front of the unit.
- The dispenser can be reloaded over and over again, making it a cost-effective and efficient method of labeling.



<b>MATERIAL</b>	Type 100, Vinyl (PVC), white (WH), self laminating
<b>Operating Temperature</b>	-40°F to +176°F (-40°C to +80°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Writable Area Height (H) in. (mm)	Label Height (H2) in. (mm)	Wire Size (AWG)	Min. Wire Size (in <sup>2</sup> )	Qty. per Roll
514REF*	514REF	0.75 (19.1)	0.38 (9.5)	1.25 (31.8)	14 to 8	.053	200
512REF*	RO512REF	0.75 (19.1)	0.50 (12.7)	1.875 (47.6)	8 to 4	.263	150
175REF*	175REF	0.75 (19.1)	0.75 (19.1)	3.0 (76.2)	-	.330	90

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

\*This product meets UL standards. Please see appendix for specific file numbers.



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### Hand Writable Labels and Tags

#### Marking Pens

HellermannTyton's marker pens are ideally suited for manual inscription onto RiteOn, Helasign, Arrowtags, IMP Plates, and identification ties. The ink of these pens dries very quickly and is extremely UV resistant. Pens are available in packs of two in black.

#### Features and Benefits

- Marker pens are ideally suited for manual inscription onto RiteOn, Helasign, Arrowtags, IMP Plates, and identification ties.
- The ink of these pens dries very quickly and is extremely UV resistant.
- Pens are available in packs of two in black.



PART NO.	TYPE	Description	Color	Qty. per Pkg.
596-06321	Paint Pen	Paint pen	Black	1
T82S	T82S-BK	Felt tip pen	Black	2

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

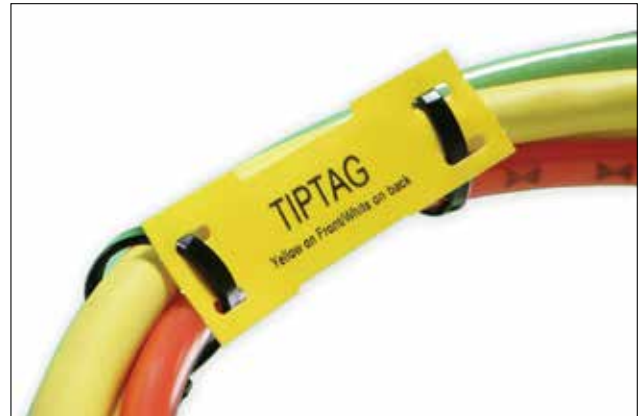
### Printable Plastic Tags

#### TipTag Cable Markers

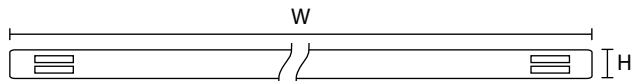
HellermannTyton's TipTags are halogen free, tear resistant, and lightweight cross laminated polyolefin that is ideal for use where weight is a critical factor. Each side is a different color. One side is yellow and the other side is white so that a high contrast black on yellow or black on white mark can be printed.

#### Features and Benefits

- Halogen free for low-smoke and low-fire hazard applications.
- White front and yellow back for versatility.
- Superior strength and tear resistance for long lasting identification.
- Pre-cut slots to secure the TipTags using HellermannTyton cable ties.



<b>MATERIAL</b>	Polyolefin (PO)
<b>Operating Temperature</b>	-58°F to +221°F (-50°C to +105°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Printable Area Width in. (mm)	Printable Area Height in. (mm)	Qty. per Roll
556-26006	TIPTAGVA10X65YEWH	2.59 (65.0)	0.50 (12.7)	2.58 (65.0)	0.40 (10.0)	500
556-26008	TIPTAGVA15X65YEWH	2.59 (65.0)	0.68 (17.4)	2.58 (65.0)	0.59 (15.0)	500
556-26007	TIPTAGVA10X90YEWH	3.54 (90.0)	0.50 (12.7)	3.54 (90.0)	0.40 (10.0)	500
556-26009	TIPTAGVA15X90YEWH	3.54 (90.0)	0.68 (17.4)	3.54 (90.0)	0.59 (15.0)	500

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



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

### Pre-Printed Wire Labels

#### Fiber Optic Cable Markers

HellermannTyton's coiled markers are made from heavy duty vinyl and come pre-printed with a standard warning.

#### Features and Benefits

- Markers are pre-coiled so that they can be snapped into place over the cable without the use of adhesives.
- Non-adhesive design means that the markers can be installed at any temperature or over dirty or oily surfaces.
- Pre-printed text is protected by a thick layer of clear acrylic which provides UV protection and abrasion resistance.



<b>MATERIAL</b>	Vinyl
<b>Operating Temperature</b>	-18°F to +200°F (-29°C to +93°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Min. Cable Diameter in. (mm)	Max. Cable Diameter in. (mm)	Color	Qty. per Pack
CMFO4	CMF	4.00 (101.6)	3.00 (76.2)	0.49 (12.5)	1.00 (25.4)	White	25
CMFO72		7.25 (184.0)	5.00 (127.0)	0.49 (12.5)	1.00 (25.4)	Orange	25

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

# Identification

## Labels

### Pre-Printed Wire Labels

#### Handi-Pak Marker Booklets

Handi-Pak Marker Booklets are convenient pocket sized books that contain pages of black, pre-printed legends on a white background. The legends are printed on a plastic coated cloth label that remains flexible for use in identifying wires and cables. A strong adhesive assures long lasting identification on small wires, cables or anything requiring permanent or temporary identification.

#### Features and Benefits

- Handi-Paks booklets fit in a pocket for easy transport and access.
- A single marker can be removed at the top of each label so that the terminal block can be marked and the remaining label can be used to mark the associated wire connected to the terminal.
- Markers are kitted on each page so that any marker can be removed without affecting the other markers on the page.
- Markers have a micro-perforation in the middle of each marker so that they can be broken into two pieces for use on small gauge wires, eliminating waste and reducing costs.



<b>MATERIAL</b>	Vinyl Cloth (TYHC)
<b>Adhesive</b>	Rubber
<b>Operating Temperature</b>	-40°F to +248°F (-40°C to +120°C)



PART NO.	TYPE	Description	Booklet Qty.
TCWM1	TCWM1	45 Markers Each of 0-9	1
TCWM2	TCWM2	10 Markers Each of A-Z, 1-15, +, -, /	1
TCWM3	TCWM3	10 Markers Each of 1-45	1
TCWM4	TCWM4	150 Markers Each of 1, 2, 3	1
TCWM5	TCWM5	150 Markers Each of A, B, C	1
TCWM6	TCWM6	150 Markers Each of T1, T2, T3	1
TCWM7	TCWM7	150 Markers Each of L1, L2, L3	1
TCWM8	TCWM8	6 Markers Each of 1-15; 4 Markers Each of 16-90; and 2 Markers Each of A - Z, +, -, /	1
TCWM9	TCWM9	45 Markers Each of 1, 2, 3, A, B, C; 30 Markers Each of L1, L2, L3; and 30 Markers Each of T1, T2, and T3	1
TCWM10	TCWM10	45 Markers Each of 10 NEMA Colors	1
TCWM11	TCWM11	15 Markers Each of 1-30	1
TCWM12	TCWM12	15 Markers each of A-Z; 21 Markers each of Blank; 8 Markers each of +; 7 Markers each of -	1
TCWM13	TCWM13	45 Markers Each of +, -, AC, DC; 33 Markers Each of POS, NEG, and GND; 27 Markers Each of NEUT; 21 Markers Each of SPARE and BLANK	1
TCWM14	TCWM14	45 Markers Each of 0-9; 15 Markers Each of L1-L3; 15 Markers Each of T1-T3	1
TCWM15	TCWM15	10 Markers Each of 46-90	1
TCWM16	TCWM16	10 Markers Each of 1-33, A, B, C, +, -, T1-T3, L1-L3	1

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



### Pre-Printed Wire Labels

#### Handi-Card Wire and Cable Markers

HellermannTyton Handi-Cards are easy release pre-printed cloth markers, on a plastic card, with a strong adhesive for a long lasting bond on wire and cable. The markers are available in Solid format where each marker on the card contains the same legend and Sequence format where each marker on the card contains a different number or letter which is usually printed in sequence from lowest to highest in sort order.

#### Features and Benefits

- Handi-Cards have a split backing so that a portion of the liner can be removed to expose the markers for easy dispensing.
- Handi-Cards are kitted on the card so that specific markers can be removed without affecting the other markers on the card.
- Markers are pre-printed so no additional post printing is required, saving time and money.
- Label material is a conformable cloth that ensures markers stay on wires and cables for the life of the application.



<b>MATERIAL</b>	Vinyl Cloth (TYHC)
<b>Adhesive</b>	Rubber
<b>Operating Temperature</b>	-40°F to +248°F (-40°C to +120°C)



PART NO.	TYPE	Description	Labels per Card	Cards per Box
TYHC1-33	TYHC	0.25" x 1.5", Sequence #1-33, 33 Per Card	33	25
TYHC34-66	TYHC34-66	0.25" x 1.5", Sequence #34-66, 33 Per Card	33	25
TYHC67-99	TYHC67-99	0.25" x 1.5", Sequence #67-99, 33 Per Card	33	25
TYHCA-Z	TYHCA-Z	0.25" x 1.5", Sequence Letter A-Z, 36/Card	36	25
TYHC0	TYHC0	0.25" x 1.5", Solid #0, 36 Per Card	36	25
TYHC1	TYHC1	0.25" x 1.5", Solid #1, 36 Per Card	36	25
TYHC2	TYHC2	0.25" x 1.5", Solid #2, 36 Per Card	36	25
TYHC3	TYHC3	0.25" x 1.5", Solid #3, 36 Per Card	36	25
TYHC4	TYHC4	0.25" x 1.5", Solid #4, 36 Per Card	36	25
TYHC5	TYHC5	0.25" x 1.5", Solid #5, 36 Per Card	36	25
TYHC6	TYHC6	0.25" x 1.5", Solid #6, 36 Per Card	36	25
TYHC7	TYHC7	0.25" x 1.5", Solid #7, 36 Per Card	36	25
TYHC8	TYHC8	0.25" x 1.5", Solid #8, 36 Per Card	36	25
TYHC9	TYHC9	0.25" x 1.5", Solid #9, 36 Per Card	36	25
TYHC10	TYHC10	0.25" x 1.5", Solid #10, 36 Per Card	36	25
TYHC11	TYHC11	0.25" x 1.5", Solid #11, 36 Per Card	36	25
TYHC12	TYHC12	0.25" x 1.5", Solid #12, 36 Per Card	36	25

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

### Pre-Printed Wire Labels

#### Handi-Card Wire and Cable Markers

PART NO.	TYPE	Description	Labels per Card	Cards per Box
TYHC13	TYHC13	0.25" x 1.5", Solid #13, 36 Per Card	36	25
TYHC14	TYHC14	0.25" x 1.5", Solid #14, 36 Per Card	36	25
TYHC15	TYHC15	0.25" x 1.5", Solid #15, 36 Per Card	36	25
TYHC16	TYHC16	0.25" x 1.5", Solid #16, 36 Per Card	36	25
TYHC17	TYHC17	0.25" x 1.5", Solid #17, 36 Per Card	36	25
TYHC18	TYHC18	0.25" x 1.5", Solid #18, 36 Per Card	36	25
TYHC19	TYHC19	0.25" x 1.5", Solid #19, 36 Per Card	36	25
TYHC20	TYHC20	0.25" x 1.5", Solid #20, 36 Per Card	36	25
TYHC21	TYHC21	0.25" x 1.5", Solid #21, 36 Per Card	36	25
TYHC22	TYHC22	0.25" x 1.5", Solid #22, 36 Per Card	36	25
TYHC23	TYHC23	0.25" x 1.5", Solid #23, 36 Per Card	36	25
TYHC24	TYHC24	0.25" x 1.5", Solid #24, 36 Per Card	36	25
TYHC25	TYHC25	0.25" x 1.5", Solid #25, 36 Per Card	36	25
TYHC26	TYHC26	0.25" x 1.5", Solid #26, 36 Per Card	36	25
TYHC27	TYHC27	0.25" x 1.5", Solid #27, 36 Per Card	36	25
TYHC28	TYHC28	0.25" x 1.5", Solid #28, 36 Per Card	36	25
TYHC29	TYHC29	0.25" x 1.5", Solid #29, 36 Per Card	36	25
TYHC30	TYHC30	0.25" x 1.5", Solid #30, 36 Per Card	36	25
TYHC31	TYHC31	0.25" x 1.5", Solid #31, 36 Per Card	36	25
TYHC32	TYHC32	0.25" x 1.5", Solid #32, 36 Per Card	36	25
TYHC33	TYHC33	0.25" x 1.5", Solid #33, 36 Per Card	36	25
TYHC34	TYHC34	0.25" x 1.5", Solid #34, 36 Per Card	36	25
TYHC35	TYHC35	0.25" x 1.5", Solid #35, 36 Per Card	36	25
TYHC36	TYHC36	0.25" x 1.5", Solid #36, 36 Per Card	36	25
TYHC37	TYHC37	0.25" x 1.5", Solid #37, 36 Per Card	36	25
TYHC38	TYHC38	0.25" x 1.5", Solid #38, 36 Per Card	36	25
TYHC39	TYHC39	0.25" x 1.5", Solid #39, 36 Per Card	36	25
TYHC40	TYHC40	0.25" x 1.5", Solid #40, 36 Per Card	36	25
TYHC41	TYHC41	0.25" x 1.5", Solid #41, 36 Per Card	36	25
TYHC42	TYHC42	0.25" x 1.5", Solid #42, 36 Per Card	36	25
TYHC43	TYHC43	0.25" x 1.5", Solid #43, 36 Per Card	36	25
TYHC44	TYHC44	0.25" x 1.5", Solid #44, 36 Per Card	36	25
TYHC45	TYHC45	0.25" x 1.5", Solid #45, 36 Per Card	36	25
TYHC46	TYHC46	0.25" x 1.5", Solid #46, 36 Per Card	36	25
TYHC47	TYHC47	0.25" x 1.5", Solid #47, 36 Per Card	36	25
TYHC48	TYHC48	0.25" x 1.5", Solid #48, 36 Per Card,	36	25
TYHC49	TYHC49	0.25" x 1.5", Solid #49, 36 Per Card	36	25
TYHC50	TYHC50	0.25" x 1.5", Solid #50, 36 Per Card	36	25

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

### Pre-Printed Wire Labels

#### Handi-Card Wire and Cable Markers

PART NO.	TYPE	Description	Labels per Card	Cards per Box
TYHC51	TYHC51	0.25" x 1.5", Solid #51, 36 Per Card	36	25
TYHC52	TYHC52	0.25" x 1.5", Solid #52, 36 Per Card	36	25
TYHC53	TYHC53	0.25" x 1.5", Solid #53, 36 Per Card	36	25
TYHC54	TYHC54	0.25" x 1.5", Solid #53, 36 Per Card	36	25
TYHC55	TYHC55	0.25" x 1.5", Solid #55, 36 Per Card	36	25
TYHC81	TYHC	0.25" x 1.5", Solid #81, 36 Per Card	36	25
TYHC100	TYHC100	0.25" x 1.5", Solid #100, 36 Per Card	36	25
TYHCA	TYHCA	0.25" x 1.5", Solid Letter A, 36 Per Card	36	25
TYHCB	TYHCB	0.25" x 1.5", Solid Letter B, 36 Per Card	36	25
TYHCC	TYHCC	0.25" x 1.5", Solid Letter C, 36 Per Card	36	25
TYHCD	TYHCD	0.25" x 1.5", Solid Letter D, 36 Per Card	36	25
TYHCF	TYHCF	0.25" x 1.5", Solid Letter F, 36 Per Card	36	25
TYHCL	TYHCL	0.25" x 1.5", Solid Letter L, 36 Per Card	36	25
TYHCN	TYHCN	0.25" x 1.5", Solid Letter N, 36 Per Card	36	25
TYHCP	TYHCP	0.25" x 1.5", Solid Letter P, 36 Per Card	36	25
TYHCS	TYHCS	0.25" x 1.5", Solid Letter S, 36 Per Card	36	25

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

# Identification

## Labels

### Solar Identification

#### Metal Solar Placards - Hand Writable

Variable data placards are used to mark areas specific to the individual installation, like voltage data. Made of the same durable material as pre-printed metal solar placards, hand-writable placards are designed to meet industry codes. Hand-writable placards feature a silver variable data area that can be marked using an industrial paint pen.

#### Features and Benefits

- Placards made with UV stable inks and materials tested to last up to 25 years, even in direct sun exposure.
- Aggressive adhesive ensures strong bond, even on powder coated surfaces.
- Meets or exceeds NEC & IFC standards for printed text, character height, color and outdoor UV stability.
- Optional Paint Shields provide additional protection for pre-printed and variable data placards.



<b>MATERIAL</b>	Anodized Aluminum (AA)
<b>Adhesive</b>	Ultra High Bond Permanent Acrylic Adhesive
<b>Operating Temperature</b>	-40°F to +203°F (-40°C to +95°C)



PART NO.	TYPE	NEC Code	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.	Drawing
596-00840	AC2011M5	2014, 2017	4.00 (101.6)	2.00 (50.8)	Black	5	
596-00841	ACDISCTM5	2014, 2017	3.75 (92.3)	1.00 (25.4)	Black	5	
596-00839	DC2011M5	2014	4.00 (101.6)	2.00 (50.8)	Black	5	
596-00918	DC2017M5	2017	3.75 (95.3)	1.75 (44.5)	Black	5	
596-00842	DCDISCTM5	2014, 2017	3.75 (95.3)	1.00 (25.4)	Black	5	
596-00864	DCRATINGM5	2011, 2014	4.00 (101.6)	2.00 (50.8)	Black	5	
596-00919	PVACDIS17M5	2017	3.75 (95.3)	1.00 (25.4)	Black	5	
596-00838	PVACDISM5	2014	3.75 (95.3)	1.00 (25.4)	Black	5	

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

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### Solar Identification

#### Metal Solar Placards - Engravable

Variable data placards are used to mark areas specific to the individual installation, like voltage data. Made of the same durable material as pre-printed metal solar placards, engravable placards are designed to meet industry codes. Engravable placards have a black area that can be engraved using standard engraving equipment.

#### Features and Benefits

- Placards made with UV stable inks and materials tested to last up to 25 years, even in direct sun exposure.
- Aggressive adhesive ensures strong bond, even on powder coated surfaces.
- Meets or exceeds NEC & IFC standards for printed text, character height, color and outdoor UV stability.
- Optional Paint Shields provide additional protection for pre-printed and variable data placards.



<b>MATERIAL</b>	Anodized Aluminum (AA)
<b>Adhesive</b>	Ultra High Bond Permanent Acrylic Adhesive
<b>Operating Temperature</b>	-40°F to +203°F (-40°C to +95°C)



PART NO.	TYPE	NEC Code	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.	Drawing
596-00862	AC2011M5ENG	2014, 2017	4.00 (101.6)	2.00 (50.8)	Black	5	
596-00866	BLANK2X125	Blank Plate For Engraving	2.00 (50.8)	1.25 (31.8)	Black	5	
596-00867	BLANK4X75	Blank Plate For Engraving	4.00 (101.6)	0.75 (19.1)	Black	5	
596-00868	BLANK375X2	Blank Plate For Engraving	3.75 (95.3)	2.00 (50.8)	Black	5	
596-00863	DC2011M5ENG	2011, 2014	4.00 (101.6)	2.00 (50.8)	Black	5	
596-00922	DC2017M5ENG	2017	3.75 (95.3)	1.75 (44.5)	Black	5	
596-00858	DCDISCTM5ENG	2014, 2017	3.75 (92.3)	1.00 (25.4)	Black	5	
596-00865	DCRATINGM5ENG	2008, 2011, 2014	4.00 (101.6)	2.00 (50.8)	Black	5	
596-00923	PVACDIS17M5ENG	2017	3.75 (95.3)	1.00 (25.4)	Black	5	
596-00859	PVACDISM5ENG	2014	3.75 (95.3)	1.00 (25.4)	Black	5	

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### Solar Identification

#### Preprinted Header Labels - Polyester

These labels come with preprinted color headers so only one color of ribbon is needed to complete the message panel. Labels can be used with TagPrint® Pro label software and HellermannTyton thermal transfer printers to reduce labor, eliminate minimum orders and allow the user to create labels on demand.

#### Features and Benefits

- Preprinted Solar Labels are made with UV-stable inks and materials for durability, weather resistance and long-term outdoor use.
- Polyester is resistant to chemicals and solvents and will remain legible in dirty environments.
- High abrasion and scuff resistance for high performance labeling.
- Meets NEC & IFC standards for printed text, character height, color and outdoor UV stability to pass inspections.



<b>MATERIAL</b>	Polyester (PET)
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +302°F (-40°C to +150°C)



PART NO.	TYPE	Description	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.	Drawing
596-00425*	3X2CAUTION	Yellow CAUTION header	3.00 (76.2)	2.00 (50.8)	Yellow	250	
596-00635*	3X2CAUTIONUV	Yellow CAUTION header	3.00 (76.2)	2.00 (50.8)	Yellow	250	
596-00648*	3X2DANGERUV	Red DANGER header	3.00 (76.2)	2.00 (50.8)	Red	250	
596-00634*	3X2WARNINGUV	Orange WARNING header	3.00 (76.2)	2.00 (50.8)	Orange	250	
596-00636*	4X6CAUTIONUV	Yellow CAUTION header	6.00 (152.4)	4.00 (101.6)	Yellow	250	
596-00646*	4X6DANGERUV	Red DANGER header	6.00 (152.4)	4.00 (101.6)	Red	250	
596-00633*	4X6WARNINGUV	Orange WARNING header	6.00 (152.4)	4.00 (101.6)	Orange	250	

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



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### Solar Identification

#### Preprinted Header Labels - Polyester

PART NO.	TYPE	Description	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.	Drawing
596-00800*	HL2X2YE	Yellow HAZARD header	2.00 (50.8)	2.00 (50.8)	Yellow	50	
596-00801*	HL3X3YE	Yellow HAZARD header	3.00 (76.2)	3.00 (76.2)	Yellow	50	

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

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### Solar Identification

#### Preprinted Metal Solar Placards

Variable data placards are used to mark areas specific to the individual installation, like voltage data. Made of the same durable material as pre-printed metal solar placards, HellermannTyton offers two styles of variable placards: hand-writable and engravable. Both hand-writable placards feature a silver variable data area that can be marked using an industrial paint pen. Engravable placards have a black area that can be engraved using standard engraving equipment.

#### Features and Benefits

- Placards made with UV stable inks and materials tested to last up to 25 years, even in direct sun exposure.
- Aggressive adhesive ensures strong bond, even on powder coated surfaces.
- Meets or exceeds NEC & IFC standards for printed text, character height, color and outdoor UV stability.
- Optional Paint Shields provide additional protection for pre-printed and variable data placards.



<b>MATERIAL</b>	Anodized Aluminum (AA)
<b>Adhesive</b>	Ultra High Bond Permanent Acrylic Adhesive
<b>Operating Temperature</b>	-40°F to +203°F (-40°C to +95°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.	Drawing
596-00837	120VOLT5	3.75 (95.3)	2.00 (50.8)	Orange	5	
596-00835	BIPOLARPVM5	3.75 (95.3)	2.00 (50.8)	Orange	5	
596-00834	CBACKFEDM5	4.13 (104.6)	0.75 (19.1)	Yellow	5	
596-00917	IOCOD17M5	2.00 (50.8)	1.25 (31.8)	Orange	5	
596-00836	IOCODM5	2.00 (50.8)	1.25 (31.8)	Orange	5	
596-00861	MPVACDISM5	5.50 (139.7)	1.75 (44.4)	Red	5	
596-00860	MPVSDM5	5.50 (139.7)	1.75 (44.4)	Red	5	
596-00831	WDCCUM5	3.75 (95.3)	2.00 (50.8)	Orange	5	
596-00924	WDGC17M5	3.75 (95.3)	2.00 (50.8)	Orange	5	
596-00833	WDPSLBLM5	4.13 (104.6)	0.75 (19.1)	Orange	5	


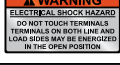
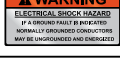

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### Solar Identification

#### Preprinted Metal Solar Placards

PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.	Drawing
596-00921	WESHLBL17M5	3.75 (95.3)	2.00 (50.8)	Orange	5	
596-00920	WESHLBLDC17M5	3.75 (95.3)	2.50 (63.5)	Orange	5	
596-00829	WESHLBLDCM5	3.75 (95.3)	2.50 (63.5)	Orange	5	
596-00828	WESHLBLM5	3.75 (95.3)	2.00 (50.8)	Orange	5	
596-00830	WGCMEM5	3.75 (95.3)	2.00 (50.8)	Orange	5	
596-00832	WTOPVLBLM5	3.75 (95.3)	2.00 (50.8)	Orange	5	

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# Identification

## Labels

### Solar Identification

#### Preprinted Solar Labels - Vinyl

Many times common solar label designs are specified even though they might not be required by code. HellermannTyton offers a selection of some of the most commonly requested labels for use on solar installations.

#### Features and Benefits

- Made with UV stable inks and materials for durability and weather resistance.
- The labels are supplied with aggressive adhesive to ensure long life.
- Solar Installation labels meet NEC & IFC standards for printed text, character height, color and outdoor UV stability to pass inspections.



<b>MATERIAL</b>	Vinyl
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +174°F (-40°C to +79°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.	Drawing
596-00756*	ACCB	4.00 (101.6)	1.00 (25.4)	Red	50	AC COMBINER BOX
596-00740*	DCCB	4.00 (101.6)	1.00 (25.4)	Red	50	DC COMBINER BOX
596-00757*	DCD	4.00 (101.6)	1.00 (25.4)	Red	50	DC DISCONNECT
596-00738*	DCJB	4.00 (101.6)	1.00 (25.4)	Red	50	DC JUNCTION BOX
596-00739*	DNALP	5.00 (127.0)	1.25 (31.7)	Red	50	CAUTION: DO NOT INSTALL ADDITIONAL LOADS IN THIS PANEL
596-00748*	ECCMPV	4.00 (101.6)	2.00 (50.8)	Red	50	ENCLOSURE CONTAINS CONDUCTORS FROM MULTIPLE PV SOURCES
596-00750*	IOC	4.00 (101.6)	1.00 (25.4)	Yellow	50	CAUTION INVERTER INPUT CIRCUIT
596-00737*	PSKWH	4.00 (101.6)	1.00 (25.4)	Red	50	PHOTOVOLTAGE SYSTEM KWH METER
596-00735*	SMPV	4.00 (101.6)	2.00 (50.8)	Orange	50	WARNING THIS SERVICE METER IS ALSO SERVED BY A PHOTOVOLTAGE SYSTEM
596-00751*	SSB	2.00 (50.8)	1.00 (25.4)	Red	50	SOLAR SYSTEM BREAKER

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

\*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

### Solar Identification

#### Preprinted Solar Labels - 443/552 Vinyl

HellermannTyton pre-printed Solar Installation Labels are designed to meet the requirements of the National Electrical Code and the International Fire Code as well as being acceptable to the Authority Having Jurisdiction (AHJ). Labels are made with durable UV-stable materials and adhesives that are designed to stick to both baked enamel and powder coat surfaces. Where applicable, labels are made using reflective materials for first responder safety. Some pre-printed labels are printable using a thermal transfer printer when variable voltage or series data must be printed and displayed.

#### Features and Benefits

- Pre-Printed Vinyl Solar Labels are made with UV-stable inks and materials for durability and weather resistance.
- Supplied with an aggressive adhesive to ensure long life.
- Meets NEC & IFC standards for printed text, character height, color and outdoor UV stability to pass inspections.
- Pre-printed labels offer significant time and cost savings over high priced plastic engraved phenolic placards and lead time purchased markers.



<b>MATERIAL</b>	Type 443/552, UV Stable Flexible White Vinyl with Acrylic Laminate
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +174°F (-40°C to +79°C)



PART NO.	TYPE	NEC Code	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.	Drawing
596-00591*	120VOLT	2014, 2017	3.75 (95.3)	2.00 (50.8)	Orange	50	
596-00824*	120VOLTS	2014 (Spanish)	3.75 (95.3)	2.00 (50.8)	Orange	50	
596-00590*	BIPOLARPV	2014	3.75 (95.3)	2.00 (50.8)	Orange	50	
596-00236*	CBACKFED	2011	4.13 (104.6)	0.75 (19.1)	Red	50	
596-00587*		2014, 2017	4.13 (104.6)	0.75 (19.1)	Yellow	50	
596-00808*	CBACKFEDS	2014 (Spanish)	3.75 (95.3)	2.00 (50.8)	Orange	50	
596-00827*		2014 (Spanish)	4.13 (104.6)	0.75 (19.1)	Yellow	50	
596-00986*	ESSDCD	2017	5.50 (139.7)	1.75 (44.5)	Red	50	
596-00589*	IOCOD	2014	4.13 (104.6)	0.75 (19.1)	Orange	50	

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# Identification

## Labels

### Solar Identification

#### Preprinted Solar Labels - 443/552 Vinyl

PART NO.	TYPE	NEC Code	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.	Drawing
596-00846*	IOCOD14	2014	2.00 (50.8)	1.25 (31.8)	Orange	50	
596-00880*	IOCOD17	2017	4.13 (104.4)	0.75 (19.1)	Orange	50	
596-00883*	IOCOD17ST	2017	2.00 (50.8)	1.25 (31.8)	Orange	50	
596-00826*	IOCODS	2014 (Spanish)	4.13 (104.6)	0.75 (19.1)	Orange	50	
596-00258*	WDCCU	2011	4.13 (104.6)	2.00 (50.8)	Red	50	
596-00588*		2014	4.13 (104.6)	2.00 (50.8)	Orange	50	
596-09323*	WDGC17	2017	3.75 (95.2)	2.00 (50.8)	Orange	50	
596-00231*	WDPSLBL	2011	4.13 (104.6)	0.75 (19.1)	Red	50	
596-00495*		2014, 2017	4.13 (104.6)	0.75 (19.1)	Orange	50	
596-00233*	WESHLBL	2011	3.75 (95.3)	2.00 (50.8)	Red	50	
596-00497*		2014	3.75 (95.3)	2.00 (50.8)	Orange	50	
596-00878*	WESHLBL17	2017	3.75 (95.2)	2.00 (50.8)	Orange	50	
596-00232*	WESHLBLDC	2011	3.75 (95.3)	2.50 (63.5)	Red	50	
596-00496*		2014	3.75 (95.3)	2.50 (63.5)	Orange	50	
596-00879*	WESHLBLDC17	2017	3.75 (95.2)	2.50 (63.5)	Orange	50	

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






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### Solar Identification

#### Preprinted Solar Labels - 443/552 Vinyl

PART NO.	TYPE	NEC Code	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.	Drawing
596-00802*	WESHLBLDCS	2014 (Spanish)	3.75 (95.3)	2.50 (63.5)	Orange	50	
596-00234*	WGCME	2011	4.13 (104.6)	2.00 (50.8)	Red	50	
596-00498*		2014	4.13 (104.6)	2.00 (50.8)	Orange	50	
596-00235*	WTOPVLBL	2011	4.13 (104.6)	2.00 (50.8)	Red	50	
596-00499*		2014, 2017	4.13 (104.6)	2.00 (50.8)	Orange	50	

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

\*This product meets UL standards. Please see appendix for specific file numbers. "Check-HT" is the mark of quality that represents a program of excellence in design and development over any other manufacturer in the industry.

### Solar Identification

#### Clear Laminate for Solar Labels

HellermannTyton printable Solar Installation labels are designed to meet the requirements of the 2014 and 2017 National Electrical Code (NEC) and the International Fire Code (IFC) as well as being acceptable to the Authority Having Jurisdiction (AHJ). Labels are made with durable UV stable materials and adhesives that are designed to stick to both baked enamel and powder coat surfaces. Where applicable, labels are made using reflective materials for first responder safety. Some pre-printed labels are printable using a thermal transfer printer when variable voltage or series data must be printed and displayed.

#### Features and Benefits

- Made with UV stable inks and materials for durability and weather resistance.
- The labels are supplied with aggressive adhesive to ensure long life.
- Solar Installation labels meet NEC & IFC standards for printed text, character height, color and outdoor UV stability to pass inspections.



<b>MATERIAL</b>	Type 443/552, UV Stable Flexible White Vinyl with Acrylic Laminate
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +174°F (-40°C to +79°C)



PART NO.	TYPE	Description	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.	Drawing
596-00242*	LAM1	Clear laminate, UV stable	4.20 (106.6)	2.25 (57.1)	Clear	50	
596-00670*	LAM110	Clear laminate, UV stable	4.20 (106.1)	2.25 (57.1)	Clear	10	

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

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### Solar Identification

#### Printable Solar Labels

Designed with cross-laminated UV stable materials, these variable print solar installation labels are designed to accept printing from any standard thermal transfer printer using a resin-based ink ribbon for the best durability. Print your voltage information directly on the label and then laminate with an optional clear acrylic laminate material for added protection. These labels can be used to print disconnecting means and breaker series directly on the labels for a more professional result and a smoother inspection process.

#### Features and Benefits

- Made with UV-stable inks and materials for durability and weather resistance.
- Polyester is resistant to chemicals and solvents and will remain legible in dirty environments.
- High abrasion and scuff resistance for high-performance labeling.
- Meets NEC & IFC standards for printed text, character height, color and outdoor UV stability to pass inspections.



<b>MATERIAL</b>	Type 840/926, Polyester (PET), UV stable, clear Polyester laminate
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +302°F (-40°C to +150°C)



PART NO.	TYPE	NEC Code	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.	Drawing
596-00252*	AC2011	2014, 2017	4.00 (101.6)	2.00 (50.8)	Red	50	
596-00816*	AC2011S	(Spanish)	4.00 (101.6)	2.00 (50.8)	Red	50	
596-00813*	ACDISCS	(Spanish)	3.75 (92.3)	1.00 (25.4)	Red	50	
596-00237*	ACDISCT	2014, 2017	3.75 (92.3)	1.00 (25.4)	Red	50	
596-00240*	ACRATING	2014, 2017	4.00 (101.6)	2.00 (50.8)	Red	50	
596-00253*	DC2011	2014	4.00 (101.6)	2.00 (50.8)	Red	50	
596-00817*	DC2011S	(Spanish)	4.00 (101.6)	2.00 (50.8)	Red	50	
596-00891*	DC2017	2017	3.75 (95.3)	2.12 (53.8)	Red	50	

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

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### Solar Identification

#### Printable Solar Labels

PART NO.	TYPE	NEC Code	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.	Drawing
596-00814*	DCDISCS	(Spanish)	3.75 (92.3)	1.00 (25.4)	Red	50	
596-00238*	DCDISCT	2014, 2017	3.75 (92.3)	1.00 (25.4)	Red	50	
596-00241*	DCRATING	2014	3.75 (92.3)	2.00 (50.8)	Red	50	
596-00987*	MBSDIS	2017	3.75 (95.3)	2.12 (53.8)	Red	50	
596-00239*	PVACDIS	2014	3.75 (95.3)	1.00 (25.4)	Red	50	
596-00892*	PVACDIS17	2017	3.75 (95.3)	1.00 (25.4)	Red	50	
596-00818*	PVACDISS	(Spanish)	3.75 (92.3)	1.00 (25.4)	Red	50	

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

\*This product meets UL standards. Please see appendix for specific file numbers. "Check-HT" is the mark of quality that represents a program of excellence in design and development over any other manufacturer in the industry.



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### Solar Identification

#### NEC 2017 and 2014 Reflective Rooftop Labels

Designed to meet NEC 2017 and 2014 Section 690.4(F) as interpreted by the International Association of Electrical Inspectors (IAEI), this aluminum and vinyl label is designed for use on almost any type of roof shingle. Mount via a pre-cut aluminum plate with aluminum clips (both supplied with label) to standard tar shingles, or bend, shape and fasten with construction adhesive or grommet screws on composite or wooden roofing. Label text is reflective to meet IFC requirements.

#### Features and Benefits

- Preprinted Solar Labels are made using high performance UV stable materials and adhesives for long outdoor life.
- Designed to meet NEC and IFC standards for PV installation labeling, the pre-printed Solar labels come printed with the most common legends required by the AHJ (Authority Having Jurisdiction) used on large utility and scaled projects to ensure code compliance during inspection.
- Labels are UV stable and made with special high bond adhesives to stick to both powder coat painted surfaces and baked enamel surfaces found on most disconnect switches and breaker boxes.
- The printed inks meet the fire safety standards of the IFC (International Fire Code) and also meet the requirements of UL969 for high reflectivity and durability.



<b>MATERIAL</b>	Type 242/552, UV Stable Reflective Vinyl w/Acrylic Laminate
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +174°F (-40°C to +79°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.
596-00257*	PVPSRTM	6.75 (171.4)	2.75 (69.9)	Red Reflective (RDRF)	1

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 \*This product meets UL standards. Please see appendix for specific file numbers.



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### Solar Identification

#### NEC 2017 and 2014 Reflective Solar Circuit Markers

These photovoltaic caution and power source markers are preprinted, non-adhesive, coiled markers that can be opened and snapped over cables for long-term, reflective, permanent identification. Made of a UV stable vinyl, the coiled markers come 25 per bag and will fit on all standard PV cables or electrical metallic tubing (EMT) conduits.

#### Features and Benefits

- Pre-Printed Solar Labels are made using high performance UV stable materials and adhesives for long outdoor life.
- Designed to meet NEC and IFC standards for PV installation labeling, the pre-printed Solar labels come printed with the most common legends required by the AHJ (Authority Having Jurisdiction) used on large utility and scaled projects to ensure code compliance during inspection.
- Labels are UV stable and made with special high bond adhesives to stick to both powder coat painted surfaces and baked enamel surfaces found on most disconnect switches and breaker boxes.
- The printed inks meet the fire safety standards of the IFC (International Fire Code) and also meet the requirements of UL969 for high reflectivity and durability.



<b>MATERIAL</b>	Vinyl
<b>Operating Temperature</b>	-18°F to +200°F (-29°C to +93°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.	Drawing
596-00249	CSCSNAP4R	4.00 (101.6)	3.00 (76.2)	Red Reflective	25	
596-00251	CSCSNAP72R	7.25 (184.2)	5.00 (127.0)	Red Reflective	25	
596-00207	PVPSSNAP4	4.00 (101.6)	3.00 (76.2)	Red Reflective	25	
596-00208	PVPSSNAP72	7.25 (184.2)	5.00 (127.0)	Red Reflective	25	

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

### Solar Identification

#### Reflective Solar Labels

HellermannTyton Pre-Printed Solar Installation Labels are designed to meet the requirements of the National Electrical Code (NEC) and the International Fire Code (IFC) as well as being acceptable to the Authority Having Jurisdiction (AHJ). Labels are made with durable UV-stable materials and adhesives that are designed to stick to both baked enamel and powder coat surfaces. Where applicable, labels are made using reflective materials for first responder safety. Some pre-printed labels are printable using a thermal transfer printer when variable voltage or series data must be printed and displayed.

#### Features and Benefits

- Made with UV-stable inks and materials for durability and weather resistance.
- Reflective properties to meet applicable NEC code requirements for reflective identification.
- Supplied with an aggressive adhesive to ensure long life.
- Meets NEC & IFC standards for printed text, character height, color and outdoor UV stability to pass inspections.



<b>MATERIAL</b>	Type 242/552, UV Stable Reflective Vinyl w/Acrylic Laminate
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +174°F (-40°C to +79°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.	Drawing
596-00615*	CSCIRLBL	6.50 (165.1)	1.00 (25.4)	Yellow	50	CAUTION: SOLAR CIRCUIT
596-00613*	CSESC	6.50 (165.1)	1.00 (25.4)	Yellow	50	CAUTION: SOLAR ELECTRICAL SYSTEM CONNECTED
596-00245*		6.50 (165.1)	1.00 (25.4)	Red	50	CAUTION: SOLAR ELECTRICAL SYSTEM CONNECTED
596-00821*	CSESCS	6.50 (165.1)	1.00 (25.4)	Yellow	50	PRECAUTION: SOLAR ELECTRICAL SYSTEM CONNECTED
596-00244*	DNDICUL	6.50 (165.1)	1.00 (25.4)	Red	50	DO NOT DISCONNECT UNDER LOAD
596-00255*	MPVACDIS	5.50 (139.7)	1.75 (44.4)	Red	50	MAIN PHOTOVOLTAIC SYSTEM AC DISCONNECT
596-00243*	MPVSD	5.50 (139.7)	1.75 (44.4)	Red	50	MAIN PHOTOVOLTAIC SYSTEM DISCONNECT
596-00474*	PSEWRS	5.50 (139.7)	1.75 (44.5)	Red	50	PHOTOVOLTAIC SYSTEM EQUIPPED WITH RAPID SHUTDOWN
596-00887*	PSEWRS17	6.50 (165.1)	1.00 (25.4)	Red	50	RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM
596-00823*	PSEWRSS	5.50 (139.7)	1.75 (44.5)	Red	50	SISTEMA FOTVOLTAICO EQUIPPADO CON INTERRUPTOR RAPIDO
596-00206*	PVPSR	6.50 (165.1)	1.00 (25.4)	Red	50	WARNING: PHOTOVOLTAIC POWER SOURCE
596-00896*	PVPSR500	6.50 (165.1)	1.00 (25.4)	Red	500	WARNING: PHOTOVOLTAIC POWER SOURCE

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# Identification

## Labels

### Solar Identification

#### Reflective Solar Labels

PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.	Drawing
596-00886*	RSDRD17	6.00 (152.4)	4.00 (101.6)	Red	50	
596-00885*	RSDYL17	6.00 (152.4)	4.00 (101.6)	Yellow	50	
596-00246*	SOLARD	6.50 (165.1)	1.00 (25.4)	Red	50	
596-00810*	SOLARDS	6.50 (165.1)	1.00 (25.4)	Red	50	

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### Solar Identification

#### NEC Solar Label Convenience Packs - Reflective 242/552 Vinyl

HellermannTyton makes it easier than ever for solar installers to meet PV labeling codes. Solar Label Convenience Packs allow installers to quickly and economically purchase high quality preprinted NEC 2014 and 2017 code-compliant solar installation labels.

Packaged in 10-count quantities to meet the needs of smaller scale solar installations and independent contractors, Solar Label Convenience Packs are available in HellermannTyton's most popular preprinted NEC 2014 and 2017 code-compliant solar label formats.

Each Solar Label Convenience Pack contains 10 solar installation labels. Choose from a variety of regular and reflective preprinted labels. For enhanced durability, clear laminate overlay labels are also available in a convenience pack.

#### Features and Benefits

- Made with UV-stable inks and materials for durability and weather resistance.
- Reflective properties to meet applicable NEC code requirements for reflective identification.
- Supplied with an aggressive adhesive to ensure long life.
- Meets NEC & IFC standards for printed text, character height, color and outdoor UV stability to pass inspections.



<b>MATERIAL</b>	Type 242/552, UV Stable Reflective Vinyl w/Acrylic Laminate
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +174°F (-40°C to +79°C)



PART NO.	TYPE	NEC Code	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.	Drawing
596-00673*	CSCIRLBL10	2014	6.50 (165.1)	1.00 (25.4)	Yellow	10	CAUTION: SOLAR CIRCUIT
596-00672*	CSESC10	2014	6.50 (165.1)	1.00 (25.4)	Yellow	10	CAUTION: SOLAR ELECTRIC SYSTEM CONNECTED
596-00671*	DND CUL10	2014, 2017	6.50 (165.1)	1.00 (25.4)	Red	10	DO NOT DISCONNECT UNDER LOAD
596-00676*	MPVACDIS10	2014, 2017	5.50 (139.7)	1.75 (44.4)	Red	10	MAIN PHOTOVOLTAIC SYSTEM AC DISCONNECT
596-00675*	MPVSD10	2014, 2017	5.50 (139.7)	1.75 (44.4)	Red	10	MAIN PHOTOVOLTAIC SYSTEM DISCONNECT
596-00677*	PSEWRS10	2014	5.50 (139.7)	1.75 (44.5)	Red	10	PHOTOVOLTAIC SYSTEM EQUIPPED WITH RAPID SHUTDOWN
596-00890*	PSEWRS1710	2017	6.50 (165.1)	1.00 (25.4)	Red	10	RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM
596-00678*	PVPSR10	2014, 2017	6.50 (165.1)	1.00 (25.4)	Red	10	WARNING: PHOTOVOLTAIC POWER SOURCE
596-00889*	RSDRD1710	2017	6.00 (152.4)	4.00 (101.6)	Red	10	SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN Rapid Shutdown Switch to Turn Off System Conductors Before the Work. Consult the NEC for the latest code requirements. (UL 1741-2017)
596-00888*	RSDYL1710	2017	6.00 (152.4)	4.00 (101.6)	Yellow	10	SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN Rapid Shutdown Switch to Turn Off System Conductors Before the Work. (UL 1741-2017)
596-00674*	SOLARD10	2014	6.50 (165.1)	1.00 (25.4)	Red	10	SOLAR DISCONNECT

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# Identification

## Labels

### Solar Identification

#### NEC Solar Label Convenience Packs - 443/552 Vinyl

HellermannTyton makes it easier than ever for solar installers to meet PV labeling codes. Solar Label Convenience Packs allow installers to quickly and economically purchase high quality preprinted NEC 2014 and 2017 code-compliant solar installation labels.

Packaged in 10-count quantities to meet the needs of smaller scale solar installations and independent contractors, Solar Label Convenience Packs are available in HellermannTyton's most popular preprinted NEC 2014 and 2017 code-compliant solar label formats.

Each Solar Label Convenience Pack contains 10 solar installation labels. Choose from a variety of regular and reflective preprinted labels. For enhanced durability, clear laminate overlay labels are also available in a convenience pack.

#### Features and Benefits

- Made with UV-stable inks and materials for durability and weather resistance.
- Reflective properties to meet applicable NEC code requirements for reflective identification.
- Supplied with an aggressive adhesive to ensure long life.
- Meets NEC & IFC standards for printed text, character height, color and outdoor UV stability to pass inspections.



<b>MATERIAL</b>	Type 443/552, UV Stable Flexible White Vinyl with Acrylic Laminate
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +174°F (-40°C to +79°C)



PART NO.	TYPE	NEC Code	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.	Drawing
596-00669*	120VOLT10	2014, 2017	3.75 (92.3)	2.00 (50.8)	Orange	10	
596-00758*	ACCB10	2017	4.00 (101.6)	1.00 (25.4)	Red	10	
596-00667*	BIPOLARPV10	2014	3.75 (92.3)	2.00 (50.8)	Orange	10	
596-00666*	CBACKFED10	2014, 2017	4.12 (104.6)	0.75 (19.1)	Yellow	10	
596-00746*	DCCB10	2017	4.00 (101.6)	1.00 (25.4)	Red	10	
596-00759*	DCD10	2017	4.00 (101.6)	1.00 (25.4)	Red	10	
596-00744*	DCJB10	2017	4.00 (101.6)	1.00 (25.4)	Red	10	
596-00749*	ECCMPV10	2017	4.00 (101.6)	2.00 (50.8)	Red	10	
596-00753*	IOC10	2017	4.00 (101.6)	1.00 (25.4)	Yellow	10	

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### Solar Identification

#### NEC Solar Label Convenience Packs - 443/552 Vinyl

PART NO.	TYPE	NEC Code	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.	Drawing
596-00668*	IOCOD10	2014	4.12 (104.7)	0.75 (19.1)	Orange	10	
596-00884*	IOCOD17ST10	2017	2.00 (50.8)	1.25 (31.8)	Orange	10	
596-00895*	IOCOD1710	2017	4.13 (104.6)	0.75 (19.1)	Orange	10	
596-00670*	LAM110	Clear laminate, UV stable	4.20 (106.1)	2.25 (57.1)	Clear	10	
596-00743*	PSKWH10	2017	4.00 (101.6)	1.00 (25.4)	Red	10	
596-00747*	SMPV10	-	4.00 (101.6)	2.00 (50.8)	Orange	10	
596-00662*	WDCCU10	2014	4.12 (104.6)	2.00 (50.8)	Orange	10	
596-09324*	WDGC1710	2017	3.75 (95.3)	2.00 (50.8)	Orange	10	
596-00665*	WDPSLBL10	2014, 2017	4.12 (104.7)	0.75 (19.1)	Orange	10	
596-00660*	WESHLBL10	2014	3.75 (92.3)	2.00 (50.8)	Orange	10	
596-00893*	WESHLBL1710	2017	3.75 (92.3)	2.00 (50.8)	Orange	10	
596-00661*	WESHLBLDC10	2014	3.75 (92.3)	2.50 (63.5)	Orange	10	
596-00894*	WESHLBLDC1710	2017	3.75 (92.3)	2.50 (63.5)	Orange	10	
596-00663*	WGCME10	2014	4.12 (104.7)	2.00 (50.8)	Orange	10	
596-00664*	WTOPVLBL10	2014, 2017	4.12 (104.6)	2.00 (50.8)	Orange	10	

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# Identification

## Labels

### Solar Identification

#### NEC Solar Label Convenience Packs - 840/926 Polyester

HellermannTyton makes it easier than ever for solar installers to meet PV labeling codes. Solar Label Convenience Packs allow installers to quickly and economically purchase high quality preprinted NEC 2014 and 2017 code-compliant solar installation labels.

Packaged in 10-count quantities to meet the needs of smaller scale solar installations and independent contractors, Solar Label Convenience Packs are available in HellermannTyton's most popular preprinted NEC 2014 and 2017 code-compliant solar label formats.

Each Solar Label Convenience Pack contains 10 solar installation labels. Choose from a variety of regular and reflective preprinted labels. For enhanced durability, clear laminate overlay labels are also available in a convenience pack.

#### Features and Benefits

- Made with UV-stable inks and materials for durability and weather resistance.
- Polyester is resistant to chemicals and solvents and will remain legible in dirty environments.
- High abrasion and scuff resistance for high-performance labeling.
- Meets NEC & IFC standards for printed text, character height, color and outdoor UV stability to pass inspections.



<b>MATERIAL</b>	Type 840/926, Polyester (PET), UV stable, clear Polyester laminate
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +302°F (-40°C to +150°C)



PART NO.	TYPE	NEC Code	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.	Drawing
596-00855*	AC201110	2014, 2017	4.00 (101.6)	2.00 (50.8)	Red	10	
596-00853*	ACDISCT10	2014, 2017	3.75 (92.3)	1.00 (25.4)	Red	10	
596-00904*	AF5X35D	2017	5.00 (127.0)	3.75 (95.3)	Red	10	
596-00905*	AF5X35W	2017	5.00 (127.0)	3.75 (95.3)	Orange	10	
596-00850*	DC201110	2014	4.00 (101.6)	2.00 (50.8)	Red	10	
596-00881*	DC201710	2017	3.75 (95.3)	2.12 (53.8)	Red	10	
596-00854*	DCDISCT10	2014, 2017	3.75 (92.3)	1.00 (25.4)	Red	10	

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### Solar Identification

#### NEC Solar Label Convenience Packs - 840/926 Polyester

PART NO.	TYPE	NEC Code	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.	Drawing
596-00851*	DCRATING10	2014	3.75 (92.3)	2.00 (50.8)	Red	10	
596-00852*	PVACDIS10	2014	3.75 (95.3)	1.00 (25.4)	Red	10	
596-00882*	PVACDIS1710	2017	3.75 (95.3)	1.00 (25.4)	Red	10	

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

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# Identification

## Labels

### Solar Identification

#### TT130SMC-Compatible Printable Solar Labels

Designed in a one-across landscape format to fit into the compact TT130SMC thermal transfer printer, these labels allow for code-compliant marking of variable information including disconnecting means, breaker series and voltage data. Made with cross-laminated UV stable materials, labels are ideal for use in solar installation applications. Use with the TT130SMC or any HellermannTyton thermal transfer printer.

#### Features and Benefits

- Made with UV-stable inks and materials for durability and weather resistance.
- Reflective properties to meet applicable NEC code requirements for reflective identification.
- Supplied with an aggressive adhesive to ensure long life.
- Meets NEC & IFC standards for printed text, character height, color and outdoor UV stability to pass inspections.



<b>MATERIAL</b>	Type 840/926, Polyester (PET), UV stable, clear Polyester laminate
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +302°F (-40°C to +150°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.	Drawing
596-00655*	AC2011-1	2.00 (50.8)	4.00 (101.6)	Red	50	
596-00650*	ACDISC-1	1.00 (25.4)	3.75 (95.3)	Red	50	
596-00653*	DC2011-1	2.00 (50.8)	4.00 (101.6)	Red	50	
596-00651*	DCDISC-1	1.00 (25.4)	3.75 (95.3)	Red	50	
596-00654*	DCRATING-1	2.00 (50.8)	3.75 (95.3)	Red	50	
596-00652*	PVACDIS-1	1.00 (25.4)	3.75 (95.3)	Red	50	

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

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### Solar Identification

#### Paint Shields

HellermannTyton offers Paint Shield laminates that can be applied over Metal Solar Placards as a barrier against unintentional painting or graffiti. Paint Shields can also be used to provide additional protection for hand-written markings using a paint pen. HellermannTyton offers several sizes of Paint Shields designed to match all sizes of Metal Solar Placards. If a Paint Shield (covering placard) has been painted over, simply remove the shield to reveal original marking. Replace shield as needed.

#### Features and Benefits

- Made with UV stable inks and materials for durability and weather resistance.
- Supplied with aggressive adhesive to ensure long life.
- Meets NEC & IFC standards for printed text, character height, color and outdoor UV stability to pass inspections.
- Pre-printed labels offer significant time and cost savings over high priced engraved and lead time purchased markers.



<b>MATERIAL</b>	Type 240, 2.0 Mil Polyester (PET), Clear (CL)
<b>Adhesive</b>	1.0 Mil Aggressive Removable
<b>Operating Temperature</b>	-20°F to +302°F (-29°C to +150°C)



PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.
596-00792	PAINTSHIELD1	3.60 (91.4)	2.38 (60.4)	Clear	10
596-00793	PAINTSHIELD2	3.50 (88.9)	1.75 (44.5)	Clear	10
596-00794	PAINTSHIELD3	4.00 (101.6)	1.80 (45.7)	Clear	10
596-00795	PAINTSHIELD4	5.38 (136.4)	1.63 (41.1)	Clear	10
596-00796	PAINTSHIELD5	3.60 (91.4)	0.90 (22.9)	Clear	10
596-00797	PAINTSHIELD6	3.90 (99.1)	0.70 (17.8)	Clear	10

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

### Metal Embossing Printer Systems

#### M-BOSS Compact Embossing Printer

M-BOSS Compact is a quiet, easy to use metal plate embossing printer with a small production footprint. It is simple to install and operate, needing just a standard electrical supply and a PC. Marker plates are attached to pipes and cables using 4.6mm width MBT cable ties and a MK9SST hand tool.

#### Features and Benefits

- Built in storage tray for safe storage of all printing components.
- Functions with TagPrint® Pro labeling software for easy label design.
- Tested to over 1.5 million strikes without maintenance for reliable embossing.
- Fast embossing speed for high volume marker production.



PART NO.	TYPE	Description	Width (W) in. (mm)	Height (H) in. (mm)	Color	Qty. per Pkg.
544-20000	M-BOSS Compact	M-BOSS Compact Embossing Printer	18.89 (480.0)	13.89 (353.0)	Blue	1
544-21000	M-BOSS Compact Organiser	M-BOSS Compact Embossing Printer with Organizer	18.89 (480.0)	13.89 (353.0)	Blue	1

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



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### Metal Embossing Printer Systems

#### M-BOSS Compact Markers

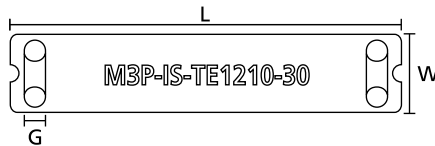
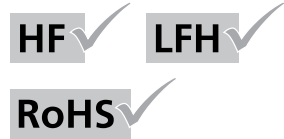
M-BOSS Compact Markers are used in all areas where severe mechanical or chemical conditions occur, such as offshore industry, solar industry, marine engineering, petrochemical industry, mining, underground or on radio and cellular masts where mark permanence is critical.

#### Features and Benefits

- Raised marking ensure text visibility even when covered in dust, debris, grease and oil.
- Stainless steel grade SS316 is suited for use in harsh environments.
- Marker plates are designed for use with stainless steel cable ties with a 0.81" (4.6mm) strap width.



<b>MATERIAL</b>	Stainless Steel (SS316)
<b>Operating Temperature</b>	-112°F to +1000°F (-80°C to +538°C)



PART NO.	TYPE	Description	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Cable Tie Width Max. in. (mm)	Qty. per Pkg.
544-80101	MBML10X45	M-BOSS Marker	1.8 (10.0)	0.4	0.2 (4.6)	1000
544-80201	MBML20X45	M-BOSS Marker	1.8 (20.0)	0.8	0.2 (4.6)	1000
544-80102	MBML10X90	M-BOSS Marker	3.5 (10.0)	0.4	0.2 (4.6)	500
544-80202	MBML20X90	M-BOSS Marker	3.5 (20.0)	0.8	0.2 (4.6)	500

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

### Paint Mask Labels

#### Paint Masks - Vinyl

HellermannTyton thermal transfer self-laminating Paint Mask Labels are conformable with a white printable surface followed by a clear tail that laminates the printed text when applied to a wire or cable. The labels utilize an aggressive acrylic adhesive that allows the label to bond to large and small diameter wires.

#### Features and Benefits

- Paint Mask Labels provide permanent paint protection but can still be removed at any time when required.
- Paint Mask Labels withstand chemicals and heat to survive the painting process.



<b>MATERIAL</b>	Vinyl
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +194°F (-40°C to +90°C)
<b>Min. Application Temp.</b>	+50°F (+10 °C)



PART NO.	TYPE	Label Width (W) in. (mm)	Height of Printable Area (H) in. (mm)	Label Height (H2) in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Liner Width in. (mm)	Qty. per Roll
596-96253*	PW.25W1	1.00 (25.4)	0.75 (19.1)	4.75 (120.6)	0.13 (3.2)	0.38 (9.5)	2.00 (50.8)	1000
596-96262*	PW2.75W1	1.00 (25.4)	1.50 (38.1)	4.37 (110.9)	0.63 (15.8)	0.88 (22.2)	2.38 (60.4)	500
596-96260*	PW.50W1	1.00 (25.4)	1.50 (38.1)	7.43 (188.7)	0.38 (9.5)	0.63 (15.8)	3.00 (76.2)	500
596-96257*	PW2.75W2	2.00 (50.8)	1.50 (38.1)	4.37 (110.9)	0.63 (15.8)	0.88 (22.2)	4.20 (106.6)	500
596-96254*	PW.50W2	2.00 (50.8)	1.50 (38.1)	7.43 (188.7)	0.38 (9.5)	0.63 (15.8)	3.00 (76.2)	500

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
 \*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

### Paint Mask Labels

#### Paint Masks - Polyester Film

HellermannTyton thermal transfer self-laminating Paint Mask Labels are conformable with a white printable surface followed by a clear tail that laminates the printed text when applied to a wire or cable. The labels utilize an aggressive acrylic adhesive that allows the label to bond to large and small diameter wires.

#### Features and Benefits

- Paint Mask Labels provide permanent paint protection but can still be removed at any time when required.
- Paint Mask Labels withstand chemicals and heat to survive the painting process.



<b>MATERIAL</b>	Polyester Film
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +300°F (-40°C to +149°C)
<b>Min. Application Temp.</b>	+50°F (+10 °C)



PART NO.	TYPE	Label Width (W) in. (mm)	Height of Printable Area (H) in. (mm)	Label Height (H2) in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Liner Width in. (mm)	Qty. per Roll
596-96255	PW.25W1P	1.00 (25.4)	0.75 (19.1)	4.75 (120.6)	0.13 (3.2)	0.38 (9.5)	2.00 (50.8)	1000
596-96263	PW2.75W1P	1.00 (25.4)	1.50 (38.1)	4.37 (110.9)	0.63 (15.8)	0.88 (22.2)	2.38 (60.4)	500
596-96261	PW.50W1P	1.00 (25.4)	1.50 (38.1)	7.43 (188.7)	0.38 (9.5)	0.63 (15.8)	3.00 (76.2)	500
596-96258	PW2.75W2P	2.00 (50.8)	1.50 (38.1)	4.37 (110.9)	0.63 (15.8)	0.88 (22.2)	4.20 (106.6)	500
596-96256	PW.50W2P	2.00 (50.8)	1.50 (38.1)	7.43 (188.7)	0.38 (9.5)	0.63 (15.8)	3.00 (76.2)	500

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



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# Identification

## Labels

### Safety Labels

#### Pre-Printed Voltage Markers

HellermannTyton Pre-Printed Voltage Markers are made of durable vinyl and are available with the most commonly used warnings and alerts. The self-adhesive markers allow users to clearly identify electrical lines, voltages and hazards. The durable adhesive backing is resistant to UV exposure as well as chemicals and solvents. Use voltage markers on conduit, pipe, circuit boxes or electrical panels.

#### Features and Benefits

- HellermannTyton Voltage Markers are available in three sizes to best suit application requirements.
- Glare-free surface for easy identification from any angle.
- Resists moisture for long-lasting durability.
- Markers are flexible to wrap securely around various size wires, pipes and conduit.
- Includes part number on label to assist with reorders.



<b>MATERIAL</b>	Vinyl
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-40°F to +176°F (-40°C to +80°C)



PART NO.	TYPE	Description	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Cards per Pkg.	Drawing
596-00946	VM110A	Voltage Marker, 110 Volts, 1/card, 50 cards/pkg	8.50 (215.2)	2.25 (57.2)	50	
596-00947	VM110C	Voltage Marker, 110 Volts, 17/card, 50 cards/pkg	2.25 (57.2)	0.50 (12.7)	50	
596-00928	VM120/208A	Voltage Marker, 120/208 Volts, 1/card, 50 cards/pkg	8.50 (215.2)	2.25 (57.2)	50	
596-00929	VM120/208B	Voltage Marker, 120/208 Volts, 4/card, 50 cards/pkg	4.25 (108.0)	1.13 (28.6)	50	
596-00930	VM120/208C	Voltage Marker, 120/208 Volts, 17/card, 50 cards/pkg	2.25 (57.2)	0.50 (12.7)	50	
596-00958	VM120/240B	Voltage Marker, 120/240 Volts, 4/card, 50 cards/pkg	4.25 (108.0)	1.13 (28.6)	50	
596-00925	VM120A	Voltage Marker, 120 Volts, 1/card, 50 cards/pkg	8.50 (215.2)	2.25 (57.2)	50	
596-00926	VM120B	Voltage Marker, 120 Volts, 4/card, 50 cards/pkg	4.25 (108.0)	1.13 (28.6)	50	
596-00927	VM120C	Voltage Marker, 120 Volts, 17/card, 50 cards/pkg	2.25 (57.2)	0.50 (12.7)	50	
596-00931	VM208A	Voltage Marker, 208 Volts, 1/card, 50 cards/pkg	8.50 (215.2)	2.25 (57.2)	50	
596-00932	VM208B	Voltage Marker, 208 Volts, 4/card, 50 cards/pkg	4.25 (108.0)	1.13 (28.6)	50	
596-00933	VM208C	Voltage Marker, 208 Volts, 17/card, 50 cards/pkg	2.25 (57.2)	0.50 (12.7)	50	
596-00957	VM220B	Voltage Marker, 220 Volts, 4/card, 50 cards/pkg	4.25 (108.0)	1.13 (28.6)	50	
596-00955	VM230C	Voltage Marker, 230 Volts, 17/card, 50 cards/pkg	2.25 (57.2)	0.50 (12.7)	50	
596-00934	VM240A	Voltage Marker, 240 Volts, 1/card, 50 cards/pkg	8.50 (215.2)	2.25 (57.2)	50	

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



### Safety Labels

#### Pre-Printed Voltage Markers

PART NO.	TYPE	Description	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Cards per Pkg.	Drawing
596-00935	VM240B	Voltage Marker, 240 Volts, 4/card, 50 cards/pkg	4.25 (108.0)	1.13 (28.6)	50	
596-00936	VM240C	Voltage Marker, 240 Volts, 17/card, 50 cards/pkg	2.25 (57.2)	0.50 (12.7)	50	
596-00938	VM277/480A	Voltage Marker, 277/480 Volts, 1/card, 50 cards/pkg	8.50 (215.2)	2.25 (57.2)	50	
596-00939	VM277/480B	Voltage Marker, 277/480 Volts, 4/card, 50 cards/pkg	4.25 (108.0)	1.13 (28.6)	50	
596-00940	VM277/480C	Voltage Marker, 277/480 Volts, 17/card, 50 cards/pkg	2.25 (57.2)	0.50 (12.7)	50	
596-00937	VM277C	Voltage Marker, 277 Volts, 17/card, 50 cards/pkg	2.25 (57.2)	0.50 (12.7)	50	
596-00948	VM440A	Voltage Marker, 440 Volts, 1/card, 50 cards/pkg	8.50 (215.2)	2.25 (57.2)	50	
596-00949	VM440C	Voltage Marker, 440 Volts, 17/card, 50 cards/pkg	2.25 (57.2)	0.50 (12.7)	50	
596-00950	VM460A	Voltage Marker, 460 Volts, 1/card, 50 cards/pkg	8.50 (215.2)	2.25 (57.2)	50	
596-00951	VM460C	Voltage Marker, 460 Volts, 17/card, 50 cards/pkg	2.25 (57.2)	0.50 (12.7)	50	
596-00941	VM480A	Voltage Marker, 480 Volts, 1/card, 50 cards/pkg	8.50 (215.2)	2.25 (57.2)	50	
596-00942	VM480B	Voltage Marker, 480 Volts, 4/card, 50 cards/pkg	4.25 (108.0)	1.13 (28.6)	50	
596-00943	VM480C	Voltage Marker, 480 Volts, 17/card, 50 cards/pkg	2.25 (57.2)	0.50 (12.7)	50	
596-00952	VM600A	Voltage Marker, 600 Volts, 1/card, 50 cards/pkg	8.50 (215.2)	2.25 (57.2)	50	
596-00953	VM600C	Voltage Marker, 600 Volts, 17/card, 50 cards/pkg	2.25 (57.2)	0.50 (12.7)	50	
596-00954	VM4160A	Voltage Marker, 4160 Volts, 1/card, 50 cards/pkg	8.50 (215.2)	2.25 (57.2)	50	
596-00956	VMHIGHVOLTAGEA	Voltage Marker, HIGH VOLTAGE, 1/card, 50 cards/pkg	8.50 (215.2)	2.25 (57.2)	50	
596-00944	VMSINGLEPHASEB	Voltage Marker, Single Phase, 4/card, 50 cards/pkg	4.25 (108.0)	1.13 (28.6)	50	
596-00945	VMTHREEPHASEB	Voltage Marker, Three Phase, 4/card, 50 cards/pkg	4.25 (108.0)	1.13 (28.6)	50	

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

### Safety Labels

#### Pre-Printed Safety Signs

HellermannTyton Pre-Printed Safety Signs are made of durable vinyl and are supplied with the most commonly used warnings and alerts. The acrylic adhesive backing is resistant to UV exposure as well as chemicals and solvents.

#### Features and Benefits

- HellermannTyton Signs are designed to meet the needs of most common applications, making sign selection easy and effective.
- Signs are code and ANSI compliant to meet all municipal requirements.
- Includes bar code and part number on sign to assist with reorders.



<b>MATERIAL</b>	Vinyl
<b>Adhesive</b>	Acrylic
<b>Operating Temperature</b>	-90°F to +186°F (-67°C to +75°C)
















PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.	
597-00080	NS710APO	10.00 (254.0)	7.00 (177.8)	Blue	25	
597-00081	NS710SGRITA	10.00 (254.0)	7.00 (177.8)	Blue	25	
597-00085	FS710FAS	10.00 (254.0)	7.00 (177.8)	Green	25	
597-00123	EE710AWS	10.00 (254.0)	7.00 (177.8)	Red	25	
597-00074	DS710CSEBPO	10.00 (254.0)	7.00 (177.8)	Red	25	
597-00072	DS710DHV	10.00 (254.0)	7.00 (177.8)	Red	25	
597-00068	DS710NSM	10.00 (254.0)	7.00 (177.8)	Red	25	

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

### Safety Labels

#### Pre-Printed Safety Signs

PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.	
597-00077	DS710TMSASA	10.00 (254.0)	7.00 (177.8)	Red	25	
597-00082	ES710EXIT	10.00 (254.0)	7.00 (177.8)	Red	25	
597-00083	FS710FE	10.00 (254.0)	7.00 (177.8)	Red	25	
597-00086	NS710NAES	10.00 (254.0)	7.00 (177.8)	Red	25	
597-00121	CS710AFEP	10.00 (254.0)	7.00 (177.8)	Yellow	25	
597-00078	CS710CWYS	10.00 (254.0)	7.00 (177.8)	Yellow	25	
597-00079	CS710DNOWG	10.00 (254.0)	7.00 (177.8)	Yellow	25	
597-00100	NS1014SGRITA	14.00 (355.6)	10.00 (254.0)	Blue	25	
597-00101	NS1014APO	14.00 (355.6)	10.00 (254.0)	Blue	25	
597-00124	EE1014AWS	14.00 (355.6)	10.00 (254.0)	Red	25	
597-00094	DS1014CSEBPO	14.00 (355.6)	10.00 (254.0)	Red	25	
597-00092	DS1014DHV	14.00 (355.6)	10.00 (254.0)	Red	25	
597-00088	DS1014NSM	14.00 (355.6)	10.00 (254.0)	Red	25	






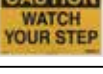
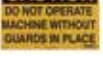
Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

# Identification

## Labels

### Safety Labels

#### Pre-Printed Safety Signs

PART NO.	TYPE	Label Width (W) in. (mm)	Label Height (H) in. (mm)	Color	Qty. per Pkg.	
597-00097	DS1014TMSASA	14.00 (355.6)	10.00 (254.0)	Red	25	
597-00102	ES1014EXIT	14.00 (355.6)	10.00 (254.0)	Red	25	
597-00103	FS1014FE	14.00 (355.6)	10.00 (254.0)	Red	25	
597-00106	NS1014NAES	14.00 (355.6)	10.00 (254.0)	Red	25	
597-00122	CS1014AFEP	14.00 (355.6)	10.00 (254.0)	Yellow	25	
597-00098	CS1014CWYS	14.00 (355.6)	10.00 (254.0)	Yellow	25	
597-00099	CS1014DNOWG	14.00 (355.6)	10.00 (254.0)	Yellow	25	

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

## CAUTION: Stick with reliable safety labels to keep areas safe.

Our voltage markers and safety signs are made to last, maintaining high visibility for years. They cover all the most common requirements. What more could you want? We think there's plenty. For medium to large general contractors, they are bulk boxed for easy dispensing – ideal for use in service trucks. Voltage markers and signs are sold individually (single cards or signs) at competitive price points and include product numbers to make reorders easy.

## MADE FOR REAL

**120 VOLTS**  
596-00925 8.5" x 2.25"

597-00077  
10.0" x 7.0"

Hellermann

Hell

See the full variety of quality, code-compliant markers and signs:  
[www.hellermann.tyton.com/SafetyLabels](http://www.hellermann.tyton.com/SafetyLabels)

### Thermal Transfer Printers

#### TT130SMC Thermal Transfer Printer

Designed for low-volume printing, HellermannTyton's TT130SMC thermal transfer printer is made of durable materials for long life in a variety of applications and environments. The compact, portable design makes it ideal for transporting to work sites. HellermannTyton thermal transfer printers work flawlessly with HellermannTyton TagPrint® Pro label printing software to create customized labels. An integrated cutter cuts continuous label media and an optional caddy holds larger label stock reels to allow higher capacity printing.

#### Features and Benefits

- Compact, lightweight design saves space and is easy to transport.
- Integrated cutter cuts continuous media to any length.
- Designed to work with TagPrint® Pro label design software for ultimate label printing capabilities.



PART NO.	TYPE	Description	Pkg. Qty.
556-00250*	TT130SMC	Printer TT130SMC with Cutter	1
556-00257*	2TT130SMCKIT	Two-Printer Kit with Cutter	1
556-00253	TT130SMCCASE	Printer Case	1
556-00254*	TT130SMCKIT	Printer Kit	1
556-00255*	TT130SMCCORD	Replacement Power Cord	1
556-00252*	TT130PWRSPLY	Replacement Power Supply TT130SMC	1
556-00251*	TT130RPHEAD	Replacement Print Head TT130SMC	1

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

\*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

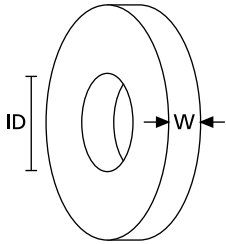
## Thermal Transfer Printers

### TT130SMC Ribbon

Thermal Transfer Ribbons are designed for use in HellermannTyton thermal transfer printers. Available on 1/2" cores, the ribbons are coated side out and available in different lengths. All ribbons are available in a variety of colors and are matched to the HellermannTyton label stock to give the best chemical and abrasion resistance.

#### Features and Benefits

- Ribbons are resin based for the best print durability.
- Ribbons are available to fit all HellermannTyton printers for easy resupply.
- Ribbons are available in colors for maximizing design printing capabilities.
- Ribbons meet UL recognition and Military standard where applicable to meet specific industry label requirements.



PART NO.	TYPE	Description	Pkg. Qty.
TT822OUTSM-2	TT822OUTSM-2	Black Ribbon, 2.24" x 242', 1/2" Core	1
556-00205	TTWHITEOUTSM-2	White Ribbon, 2.24" x 154', 1/2" Core	1

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

### Thermal Transfer Printers

#### TT230 Series Printers

HellermannTyton's TT230 series thermal transfer printers are designed for low to medium volume printing of thermal transfer labels and ShrinkTrak. The TT230 series delivers optimal performance not found in other small desktop printers. These lightweight printers offer high speed, precision, and flexible printing with the ability to print on most HellermannTyton labels and ShrinkTrak. Used in conjunction with TagPrint Pro 4.0, the TT230 series will offer error-free printing and seamless operation.

#### Features and Benefits

- LCD user interface for easier setup, diagnostics and adjustments.
- 300 dpi print head for high-resolution printing.
- Label holder included for convenient loading of any size media.
- Small footprint for easy transport to jobsites or around the shop.
- Ethernet ready for wireless network connectivity.
- Print speeds up to 4 in (76.2 mm) per second for fast label production.
- 2 MB flash/8 MB DRAM for accepting large label files that require a lot of data.



PART NO.	TYPE	Description	Pkg. Qty.
556-00230*	TT230SM	TT230SM Printer	1
556-00240*	TT230SMC	TT230SMC Printer	1
556-00239*	TT230SM KIT	TT230SM Printer Kit	1
556-00256*	TT230SMC KIT	TT230SM Printer Kit with Cutter	1
556-00231	CASE230SM	TT230SM Carrying Case, 15.25" x 12.13" x 10"	1
556-00238	CASE LG TT230SM	TT230SM Carrying Case, 25.52" x 19.5" x 13.08"	1
556-00234*	RPR TT230SM	Replacement Platen Roller TT230SM	1
556-00233*	RPS TT230SM	Replacement Power Supply TT230SM	1
556-00232*	PRH TT230SM	Replacement Print Head TT230SM	1
556-00235	LABEL HOLDER	Label Holder TT130SMC/TT230 Series	1

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

\*This product meets UL standards. Please see appendix for specific file numbers.



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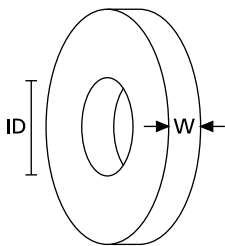
## Thermal Transfer Printers

### TT230 Series Ribbon

HellermannTyton thermal transfer ribbons are designed for use in HellermannTyton thermal transfer printers. Available on 1/2" cores, the ribbons are coated side out and available in two different lengths. All ribbons are available in a variety of colors and are matched to the HellermannTyton label stock to give the best chemical and abrasion resistance.

#### Features and Benefits

- Ribbons are resin based for the best print durability.
- Ribbons are available to fit all HellermannTyton printers for easy resupply.
- Ribbons are available in colors for maximizing design printing capabilities.
- Ribbons meet UL recognition and Military standard where applicable to meet specific industry label requirements.



PART NO.	TYPE	Description	Pkg. Qty.
TT822OUTSM	TT822OUTSM	Black Ribbon, 4.33" x 242', 1/2" Core, Hard Resin Polyester Film	1
TT100OUTSM	TT100OUTSM	Black Ribbon, 4.33" x 242', 1/2" Core, Soft Resin Polyester Film	1
TTDTHOUTSM	TTDTHOUTSM	Black Ribbon, 4.33" x 295', 1/2" Core, Durattach Resin	1
TTHSTOUTSM	TTHSTOUTSM	Black Ribbon, 4.33" x 298', 1/2" Core, ShrinkTrak Polyester Film	1
TT822OUTSM6	TT822OUTSM6	Blue Ribbon, 4.33" x 242', 1/2" Core, Polyester Film	1
TT822OUTSM5	TT822OUTSM5	Green Ribbon, 4.33" x 242', 1/2" Core, Polyester Film	1
TT822OUTSM3	TT822OUTSM3	Orange Ribbon, 4.33" x 242', 1/2" Core, Polyester Film	1
TT822OUTSM2	TT822OUTSM2	Red Ribbon, 4.33" x 242', 1/2" Core, Polyester Film	1
TT822OUTSM8	TT822OUTSM8	Silver Ribbon, 4.33" x 242', 1/2" Core, Polyester Film	1
TT822OUTSM7	TT822OUTSM7	Violet Ribbon, 4.33" x 242', 1/2" Core, Polyester Film	1
556-00258	TTWHITEOUTSM2	White Ribbon, 4.33" x 229', 1/2" Core, 822 Resin	1
556-00190	TTWHITEOUTSM	White Ribbon, 4.33" x 229', 1/2" Core, Polyester Film	1
TT822OUTSM4	TT822OUTSM4	Yellow Ribbon, 4.33" x 242', 1/2" Core, Polyester Film	1

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

### Thermal Transfer Printers

#### TTM430/TTM460 Printers

HellermannTyton's TTM430/TTM460 thermal transfer printers are designed for medium to high volume users of thermal transfer labels and ShrinkTrak. The user-friendly design features a streamlined menu for simple navigation, while the built in caddy allows even the largest label rolls to fit inside the printer. The optional cutter can cut through the thickest material. The TTM430/TTM460 printers are designed to handle all sizes of HellermannTyton's ShrinkTrak markers, and the TTM430/TTM460 can print on even the smallest labels.

#### Features and Benefits

- Available with 300 dpi and 600 dpi print heads for high resolution printing.
- Ethernet ready for easy network connectivity.
- Floating print head to automatically adjust to varying media thickness such as printable heat shrink tubing.
- Optional cutter faceplate for automatic cutting and kitting of printed labels.



PART NO.	TYPE	Description	Pkg. Qty.
556-00430*	TTM430	TTM430 Printer, 300 dpi	1
556-00443*	TTM430-SC	TTM430SC printer with cutter, 300 dpi	1
556-00460	TTM460	TTM460 Printer, 600 dpi	1
556-03065	Printhead TTM430	Replacement Print Head, TTM430	1
556-03068	TTM430SPH300	Replacement Print Head TTM430S	1
556-00461	TTM460 Printhead	Replacement Print Head, TTM460	1
556-03069	TTM430SPH600	Replacement Print Head TTM460S	1
556-00433	430RLH	Label Caddy, TTM430/TTM460	1
556-00431	430CFP	Label Cutter, TTM430/TTM460	1
556-00432*	430WLAN	WLAN Card, TTM430	1
556-00434	430RRH	Ribbon Holder, TTM430/TTM460	1

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

\*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

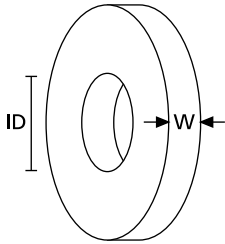
## Thermal Transfer Printers

### TTM430/TTM460 Ribbon

HellermannTyton thermal transfer ribbons are designed for use in HellermannTyton thermal transfer printers. Available on 1" cores, the ribbons are coated side out. All ribbons are available in a variety of colors and are matched to the HellermannTyton label stock to give the best chemical and abrasion resistance.

#### Features and Benefits

- Ribbons are resin based for the best print durability.
- Ribbons are available to fit all HellermannTyton printers for easy resupply.
- Ribbons are available in colors for maximizing design printing capabilities.
- Ribbons meet UL recognition and Military standard where applicable to meet specific industry label requirements.



PART NO.	TYPE	Description	Pkg. Qty.
TTDTHOUT	TTDTHOUT	Black Ribbon, 4.0" x 984', 1" Core, DTH Resin	1
TTHSTOUT	TTHSTOUT	Black Ribbon, 4.0" x 984', 1" Core, Polyester Film	1
TT900OUT	TT900OUT	Black Ribbon, 4.0" x 985', 1" Core, Polyester Film	1
TT822OUT*	TT822OUT	Black Ribbon, 4.33" x 984', 1" Core, Polyester Film	1
TT822OUT6	TT822OUT6	Blue Ribbon, 4.33" x 984', 1" Core, Polyester Film	1
TT822OUT5	TT822OUT5	Green Ribbon, 4.33" x 984', 1" Core, Polyester Film	1
TT822OUT3	TT822OUT3	Orange Ribbon, 4.33" x 984', 1" Core, Polyester Film	1
TT822OUT7	TT822OUT7	Purple Ribbon, 4.33" x 984', 1" Core, Polyester Film	1
TT822OUT2	TT822OUT2	Red Ribbon, 4.33" x 984', 1" Core, Polyester Film	1
TT822OUT8	TT822OUT8	Silver Ribbon, 4.33" x 984', 1" Core, Polyester Film	1
556-00259	TTWHITEOUT2	White Ribbon, 4.33" x 984', 1" Core, 822 Resin	1
556-00189	TTWHITEOUT	White Ribbon, 4.33" x 984', 1" Core, Polyester Film	1
TT822OUT4	TT822OUT4	Yellow Ribbon, 4.33" x 984', 1" Core, Polyester Film	1

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

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### Thermal Transfer Printers

#### TT4030 Thermal Transfer Printer

HellermannTyton's premium printer TT4030 is specifically designed for medium and heavy duty industrial application. The 300 dpi print head fulfills all standard requirements for printing bar codes, warning signs, logos and written information. Optional premium quality accessories such as a perforator and cutter are designed to work seamlessly with the printer and will suit the most demanding needs.

Printing high definition graphics such as 2d barcodes, standard bar codes, numbers and text on adhesive labels, thermo plastics such as heat shrink and cable markers (Tiptags) is easily done.

A color LCD touchscreen with modern user interface helps intuitive operation.

Creation of professional looking industrial identification is simplified by the use of HellermannTyton's label creation software TagPrint Pro 4.0.

Whether in stand-alone mode, as a PC application or in a network - the robust TT4030 printer can meet every requirement.

#### Features and Benefits

- High volume single sided printing.
- Premium-quality printer is designed for medium- to heavy-duty industrial applications.
- Ultra-fast print speeds up to 11.8 in (300 mm) per second.
- 300 dpi print head cleanly renders best-in-class high-definition graphics and text on labels, thermo plastics such as heat shrink and TipTags.
- Standard adjustments are made with the on-board tool, minimizing operator downtime.
- Optional premium quality accessories such as a perforator and cutter extend the printer's productivity.



<b>Print Head Type</b>	300 dpi, flat type
<b>Print Speed</b>	up to 11.8" (300 mm)/sec.
<b>Max. Print Width</b>	4 "
<b>Printer Interfaces</b>	RS232 C, USB 2.0, Ethernet 10/100 Base T
<b>Supported Barcodes</b>	Standard, 2D
<b>Printer Memory</b>	256 MB RAM



PART NO.	TYPE	Description	Pkg. Qty.
556-04037	TT4030	TT4030 Printer, 300 dpi	1
556-04050	S4030 Cutter	Cutter, TT4030	1
556-04005	Printer Roller TT4030/TT4000+	Platen Roller, TT4030	1
556-04041	TT4030 Printhead	Print Head, 300 dpi, TT4030	1

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



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## Labeling Software

### TagPrint Pro 4.0 Label Printing Software

TagPrint Pro 4.0 provides revolutionary label design simplicity and ease of use. With industry-leading print automation built in, users can create a label or an entire group of labels once and save under a single job number, along with additional data such as which printer to print to. Then, simply scan a bar code or enter the job number to open the group and print in one step. This significantly reduces production time and operator-related errors. TagPrint Pro is pre-loaded with popular, code-compliant safety and solar label designs to simplify common tasks.

#### Features and Benefits

- TagPrint Pro 4.0 runs on Windows 7, 8.1 and 10, allowing full compatibility and error-free operation with the most widely used systems.
- Print automation allows one-step printing of label jobs – even multi-label groups – to one or more printers simultaneously.
- Visual preview allows users to see label designs before opening them.
- Single-user and network-user versions accommodate the needs of any size operation.
- Select saved labels visually or by part number.
- Convert existing XMT files to the TagPrint data table.
- Allows devmode printing to the TT4030 thermal transfer printer, for the ultimate in printer control.
- Includes pre-saved designs for all common ANSI/OSHA compliant safety labels and pre-made solar installation labels.



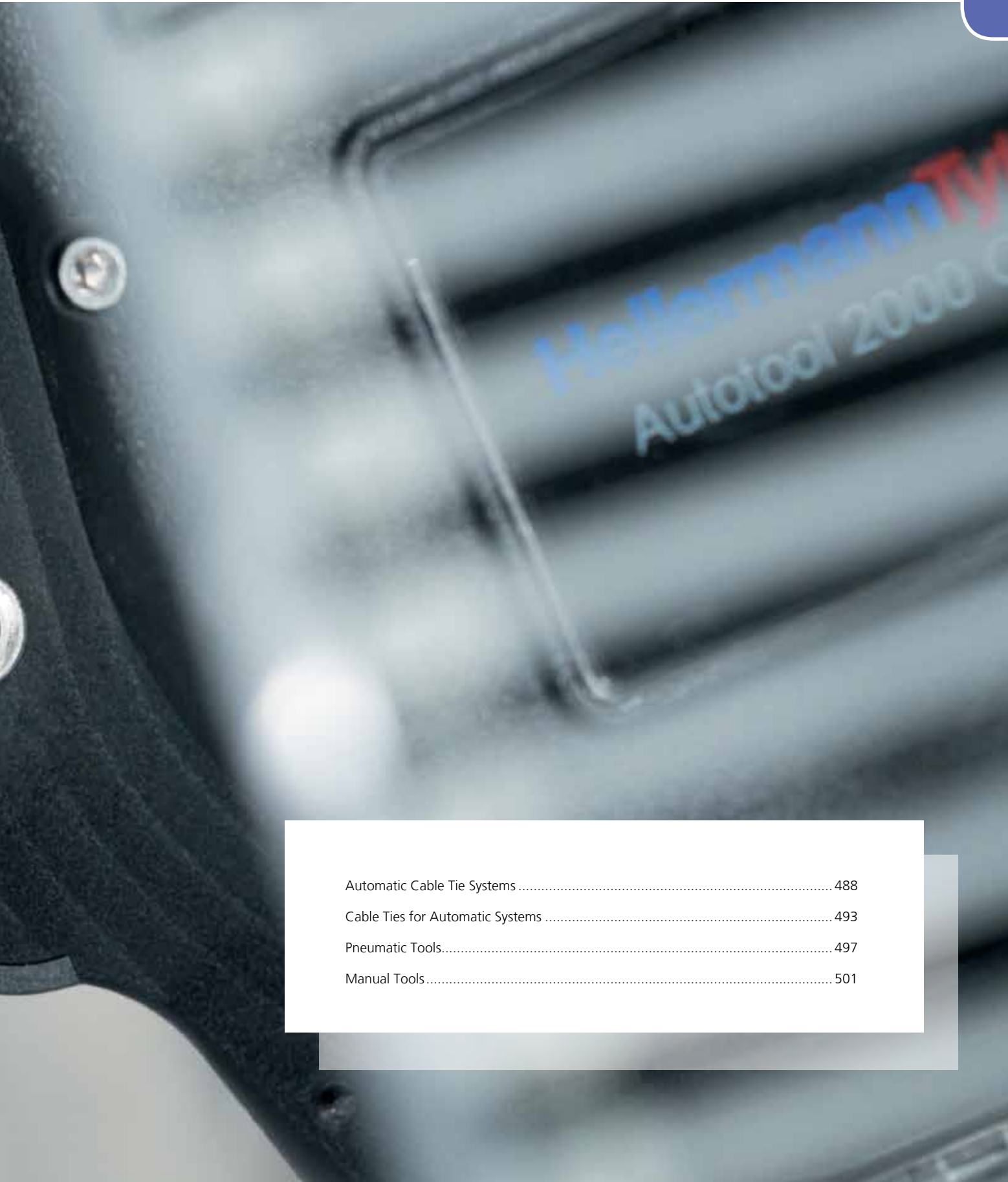
PART NO.	TYPE	Description	Pkg. Qty.
556-00035	TAGPRINT3	TagPrint Pro 4.0, Single User License	1
556-00036	TAGPRINT3LIC	TagPrint Pro 4.0, 3 License Network Program	1
556-00037	TAGPRINT5LIC	TagPrint Pro 4.0, 5 License Network Program	1
556-00038	TAGPRINT10LIC	TagPrint Pro 4.0, 10 License Network Program	1
556-00039	TAGPRINT25LIC	TagPrint Pro 4.0, 25 License Network Program	1
556-00052	TAGPRINT50LIC	TagPrint Pro 4.0, 50 License Network Program	1
556-00042	TAGPRINT3UPGRD	TagPrint Pro 4.0, Upgrade, TagPrint 2.0 Serial # Required	1
556-00043	TAGPRINT3UPGRD3S	TagPrint Pro 4.0, Upgrade, 1 User to 3 User	1
556-00044	TAGPRINT3UPGRD5S	TagPrint Pro 4.0, Upgrade, 3 User to 5 User	1
556-00045	TAGPRINT3UPGRD10S	TagPrint Pro 4.0, Upgrade, 5 User to 10 User	1
556-00046	TAGPRINT3UPGRD25S	TagPrint Pro 4.0, Upgrade, 10 User to 25 User	1

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

### Inspired by automation

Highly automated production requires processes you can count on, which is why our developers have systematically enhanced our automated bundling techniques. The current model is the Autotool 2000 CPK. It offers high reproducibility of binding results, individual control and complete documentation. Bulk quantities – such as in cable confectioning, the automotive industry and the packaging sector – can be processed more quickly and reliably as a result.





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# Application Tools

## Automatic Cable Tie Systems

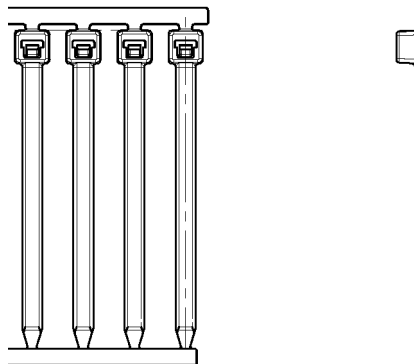
### Automatic Cable Tie Systems

#### AT2060 Tool

HellermannTyton's AT2060 system includes tool, power supply, power cord, tool cord, and maintenance and operation manual. This system can be used in handheld, bench mount, and overhead assembly configurations. The versatile overhead assembly option provides the ultimate integration into the customer's manufacturing area. HellermannTyton's autotool AT2060 is powered by a standard 110 AC 27V electrical outlet that the power supply converts to a low DC voltage for the tool.

#### Features and Benefits

- **Fast:** Cable ties are installed quickly with one easy trigger depression, increasing productivity while decreasing labor costs.
- **Reliable:** HellermannTyton's automatic cable tie systems have been tested to perform extremely consistently, without interruption to workflow.
- **Ergonomic:** The ergonomic design of the automatic cable tie tool systems feature a comfortable grip, low weight, and easy trigger depression to reduce installer effort and strain while installing cable ties.
- **Providing Valuable Operator Feedback:** Equipped with a self diagnostic LCD information screen, the automatic cable tie system easily guides the user through the cycles of cable tie installations.
- **Flexible Manufacturing Versatility:** HellermannTyton's cable tie tool systems support principles of flexible manufacturing requirements and environments.
- **Uniform Fastening Quality:** HellermannTyton's automatic cable tie systems feature adjustable tension control to deliver consistent levels of cable tie fastening.
- **Range:** The AT2060 installs 30lb ties for bundles up to 1-1/4".



PART NO.	TYPE	Description	Cable Tie Series	Pkg. Qty.
AT2060	AT2060	AT2060 Tool. Includes AT2060 tool, power supply, power cord, tool cord, and maintenance and operation manual.	T30RA30, T30RA3000	1
AT2BMNT	AT2BMNT	AT2060 Bench Mount Kit	-	1
AT2OVHD	AT2OVHD	AT2060 Overhead Suspension Kit	-	1

*Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. For cable ties, please see page 496.*



### Automatic Cable Tie Systems

#### Auto Tool System 3080

HellermannTyton's ATS3080 automatically installs cable ties for bundles up to 3.14" in diameter with one trigger depression. This innovative system utilizes strap and closures (ordered separately) to achieve a waste free system. The ATS3080 uses only the required strap length for the diameter. The strap is outside serrated so that it will not damage sensitive wires and cable bundles. This well-balanced tool has ergonomic benefits that include low weight and a comfortable hand grip which reduce operator strain and injury while installing cable ties. The ATS3080 possesses an LED panel which makes it easier to maintain and operate the tool. The ATS3080 has three jaw diameters available; 1.18" (30mm), 1.96" (50mm), 3.14" (80mm). After the jaws are easily interchanged, further tool adjustment between the three jaw diameters is unnecessary.



#### Features and Benefits

- **Fast:** Cable ties are installed quickly with one easy trigger depression, increasing productivity while decreasing labor costs.
- **Reliable:** HellermannTyton's automatic cable tie systems have been tested to perform extremely consistently, without interruption to workflow.
- **Ergonomic:** The ergonomic design of the automatic cable tie tool systems feature a comfortable grip, low weight, and easy trigger depression to reduce installer effort and strain while installing cable ties.
- **Providing Valuable Operator Feedback:** Equipped with a self diagnostic LCD information screen, the automatic cable tie system easily guides the user through the cycles of cable tie installations.
- **Flexible Manufacturing Versatility:** HellermannTyton's cable tie tool systems support principles of flexible manufacturing requirements and environments.
- **Uniform Fastening Quality:** HellermannTyton's automatic cable tie systems feature adjustable tension control to deliver consistent levels of cable tie fastening.
- **Range:** The ATS300 installs 50lb ties on bundles up to 3.14".

PART NO.	TYPE	Description	Cable Tie Series	Pkg. Qty.
ATS10200000	Autotool System 3080	ATS3080 Tool. Includes power cord, tool cord, and maintenance and operation manual.	ATS3080 Strap, ATS3080 Closure	1
ATS10200040	Bench mount kit movable 3080	Bench Mount Kit for ATS3080. Integrated pneumatic system that coordinates tool and reels. Foot pedal application, other actuation options available.	-	1
ATS10200050	Overhead suspension 3080	Overhead Suspender ATS3080	-	1

*Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. For cable ties, please see page 497.*

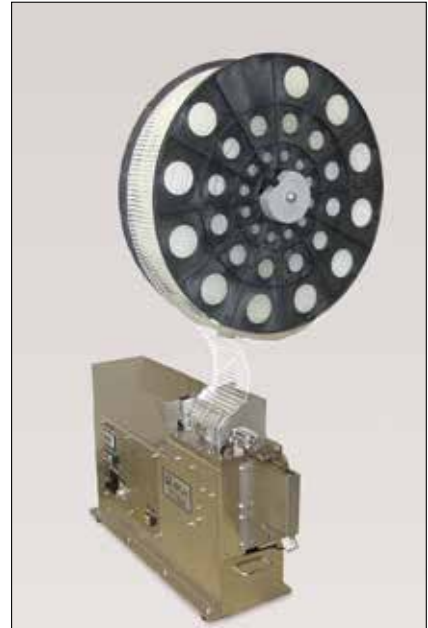
### Automatic Cable Tie Systems

#### Auto Tool System QS101

HellermannTyton's Quick Tool is an automatic bench mount system suited for high volume cable tie applications. This air powered tool accommodates a reel of 5000 ties and, like HellermannTyton's other automated systems, can be integrated into further automation as well as fully incorporated into conveyor or assembly line applications. Custom colors for Quick Tool ties are also available.

#### Features and Benefits

- The system is a one piece, bench top unit which increases efficiency through quick and reliable fastening.
- It can be installed where a 110V AC electrical outlet and pneumatic air source are available.
- Provides consistent fastening tension.
- Controls fastening tension.



PART NO.	TYPE	Description	Cable Tie Series	Pkg. Qty.
QS101	QS101	QS101 Tool. Includes power cord, maintenance and operation manual, and foot pedal.	AZ100, QTTIE	1

*Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.  
For cable ties, please see page 498.*

### Automatic Cable Tie Systems

#### AT2000 CPK Tool

The AT2000 CPK automatic cable tying system adapts to any industrial workflow. It excels in high-volume automatic bundling applications – especially where precision and repeatability are critical. The tool is electronically operated. Cycle rate is adjustable between 0.8 and 1.4 seconds, depending on what's best for the application. With a pull of the trigger, the tool applies an 18 lb. cable tie around a wire or tube bundle and is instantly ready to apply the next. Cable ties are available on 50-piece bandoliers and 5,000-piece reels. The AT2000 CPK uses two discreet drive motors. One motor delivers the tie, the other controls tension. Tension consistency is monitored in the software – especially useful when verification is required. Configurable blade enables the AT2000 CPK to cut cable ties flush or with a tail, depending on application requirements. An onboard TFT display shows production data, fault diagnostics and device control in 19 languages. Accessories are available to enhance the tool's efficiency in various workflows from hand operated to fully automated.



#### Features and Benefits

- Independent tensioning drive provides unequalled tensioning control and repeatability.
- Software makes it easy to manage bundling tension and speed, track performance, troubleshoot issues and log data.
- Versatile enough to be used by hand, on a benchtop, suspended overhead or in fully automated environments - to perform wherever you need it.
- Powerpack collects production data on USB memory stick to analyze on a PC later.

PART NO.	TYPE	Description	Cable Tie Series	Pkg. Qty.
106-00000	Autotool 2000 CPK	AT2000 CPK Tool	T18RA50, T18RA5000	1
106-00100	Power pack CPK	AT2000 CPK Power Pack	T18RA50, T18RA5000	1
106-00110	Power pack CPK with control box	AT2000 CPK Power Pack with Control Box	T18RA50, T18RA5000	1

*Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. For cable ties, please see page 499.*

### Automatic Cable Tie Systems

#### AT2000 CPK Accessories

AT2000 CPK accessories enable adapting the tool to the process. The Bench Mount Kit allows bringing the work to the tool, maximizing productivity and precision. The Overhead Suspension CPK features a new counterbalanced hanger that makes it very comfortable to operate in both stationary and mobile applications, even during extended use.

#### Features and Benefits

- Bench Mount Kit CPK facilitates converting the AT2000 CPK to a stationary position and increase bundling precision
- Power Pack CPK with Control Box provides integration with automated processes, speeding production and reducing personnel requirements
- HH20 screw mount wire retainer is used as a spacer for optimal bundling support
- New counterbalanced overhead hanger system improves ergonomics, reducing fatigue-related injuries



PART NO.	TYPE	Description	Pkg. Qty.
106-00050	Overhead suspension CPK	AT2000 CPK Overhead Suspension	-
106-00040	Bench mount kit CPK	AT2000 CPK Bench Mount Kit	1
106-00071	SP CPK hanger cpl.	AT2000 CPK Hanger	1
HH-20	HH20	Screw Mount Wire Retainer	25

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

### Cable Ties for Automatic Systems

#### AT2000 Series Cable Ties

HellermannTyton's AT2000 is designed to use 18 lb. cable ties and will fasten bundles up to 3/4" diameter. Engineered specifically for automatic cable tie assembly, these ties are offered in varying material compositions and colors, so manufacturers can select the ties that meet the application requirements and industry best practices.

#### Features and Benefits

- Cable ties can be easily recycled to meet environmental management objectives.
- HellermannTyton 18 lb. cable ties are available in natural, black, and other colors (upon request) to support color coded wire management schemes.
- Bandoliers of 50 or reels of 5000 cable ties are available, enabling maximum user efficiency in hand-held, bench-mount, or automated processes.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
T18RA50VO*	T18RA50	18.0 (80.0)	4.0 (4.8)	0.75 (20.0)	0.1 (2.5)	PA66V0	White	500
120-05015	T18RA5000	18.0 (80.0)	4.0 (4.8)	0.79 (20.0)	0.1 (2.5)	PA46	Natural	5000
T18RA50*	T18RA50	18.0 (80.0)	4.0 (4.8)	0.79 (20.0)	0.1 (2.5)	PA66	Natural	500
T18RA5000*	T18RA5000	18.0 (80.0)	4.0 (4.8)	0.79 (20.0)	0.1 (2.5)	PA66	Natural	5000
T18RA50HSW*	T18RA50	18.0 (80.0)	4.0 (4.8)	0.79 (20.0)	0.1 (2.5)	PA66HS	Black	500
T18RA5000HSW*	T18RA5000	18.0 (80.0)	4.0 (4.8)	0.79 (20.0)	0.1 (2.5)	PA66HS	Black	5000

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

*\*This product meets UL standards. Please see appendix for specific file numbers.*



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### Cable Ties for Automatic Systems

#### AT2060 Series Cable Ties

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

#### Features and Benefits

- The AT2060 cable tie system is designed for automatic installation on bundles up to 1.25" and a minimum tensile strength of 30 lbs.
- Available in reels of 3,000 each or bandoliers of 30 each.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
T30RA30*	T30RA	30.0 (133.4)	6.0 (152.4)	1.25 (31.8)	0.14 (3.6)	PA66	Natural	600
T30RA30OHS*		30.0 (133.4)	6.0 (152.4)	1.25 (31.8)	0.14 (3.6)	PA66HS	Black	600
T30RA3000*		30.0 (135.0)	6.0 (152.4)	1.25 (31.8)	0.14 (3.6)	PA66	Natural	3000
T30RA3000OHS*		30.0 (135.0)	6.0 (152.4)	1.25 (31.8)	0.14 (3.6)	PA66HS	Black	3000

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### Cable Ties for Automatic Systems

#### ATS3080 Series Cable Ties

HellermannTyton's ATS3080 automatically installs cable ties for bundles up to 3.14" in diameter with one trigger depression. This innovative system utilizes strap and closures (ordered separately) to achieve a waste free system. The ATS3080 uses only the required strap length required for the diameter. The strap is outside serrated so that it will not damage sensitive wire and cable bundles. This well balanced tool has ergonomic benefits that include low weight and a comfortable hand grip that reduces operator strain and injury while installing cable ties. The ATS3080 possesses a LED panel that provides critical operational feedback that makes it easier to maintain and operate the tool. The ATS3080 has three jaw diameter available: 1.18" (30 mm,) 1.96" (50 mm,) and 3.14" (80 mm.) The jaws are easily interchanged and further tool adjustment between the three jaw diameters is unnecessary.



#### Features and Benefits

- The ATS3080 cable tie is designed for optimized material utilization by using an innovative two-piece system consisting of individual strap and closures.
- Waste-free cable tie system eliminates down time due to cleaning and opening waster containers.
- Bundle diameter is mechanically detected and allows a flush cut off of the strap.
- Available in reels of 1,640 feet of strap and 5,000 closures.

PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Description	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color
ATS10266210	Closures Black ATS3080	50.0 (225)	ATS3080 Closures, 0.4" Long, 5000/reel	3.14 (80.0)	0.31 (8.0)	PA66HSUV	Black
ATS10266110	Strap Black ATS3080	50.0 (225)	ATS3080 Strap, 1640 ft Long, 1 reel	3.14 (80.0)	0.18 (4.5)	PA66HIRHSUV	Black

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

### Cable Ties for Automatic Systems

#### QS101 Series Cable Ties

HellermannTyton's Quick Tool is an automatic bench mount system suited for high volume cable tie applications. This air powered tool accommodates a reel of 5000 ties and, like HellermannTyton's other automated systems, can be integrated into further automation as well as fully incorporated into conveyor or assembly line applications. Custom colors for Quick Tool ties are also available.

#### Features and Benefits

- Ties are available in two styles: standard and heat stabilized.
- Custom colors for Quick Tool ties are also available. Contact HellermannTyton for more information.



PART NO.	TYPE	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Diameter in. (mm)	Width (W) in. (mm)	Material	Color	Pkg. Qty.
QTTIE9*	AZ100	18.0 (80.0)	3.94 (100.0)	0.63 (16.0)	0.1 (2.5)	PA66	Natural	5000
QTTIE0HS*		18.0 (80.0)	3.94 (100.0)	0.63 (16.0)	0.1 (2.5)	PA66HSW	Black	5000

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### Pneumatic Tools

#### MK7P Tool

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

#### Features and Benefits

- Enhanced technology for better application of cable ties.
- Improved compressed air supply for faster tensioning piston movement.
- Shorter processing time and greater volume of connecting tie application.
- Genuine potential for rationalization.
- Ergonomic design, molded handle to prevent slippage, reduce operator fatigue.
- Lightweight but very tough housing made of glass fiber-reinforced plastic.
- Meets high industry standards.
- Tensioning and cutting off cable ties flush with head by pressing one button.
- Smooth cut edge to prevent injuries.
- Automatic ejection of cut-off cable tie end.
- Three-level preset control to set tool tension.
- Optional safety cap to prevent tension setting from being changed by accident (important when bundling sensitive materials and maintaining process reliability.)
- Non-slip, comfortable grip, soft touch trigger, and one-touch tensioning/cut off.
- Very lightweight and easy to use on all cable ties 2.5–4.8 mm wide.
- All separately sold accessories are compatible with the MK7P series tool.



PART NO.	TYPE	Description	Cable Tie Series	Pkg. Qty.
MK7P	MK7P	Mark 7 Pneumatic Tool	T18 thru T50 Series CTT20 thru CTT60	1

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

### Pneumatic Tools

#### MK9P Tools

HellermannTyton MK9P tensioning tools achieve unique levels of repeatability and accuracy while maintaining a high application speed. One further advantage is its low-maintenance handling.

MK9P pneumatic bundling tools set a new benchmark for the rational application of ties in the industrial production process. Improved compressed air supply moves the tensioning piston faster than in comparable tools. Processing time is shortened and the volume of connecting ties applied is increased. Great attention was paid to ergonomic design in the development of this tool. The cut-off end of the tie is ejected automatically. Production breaks normally required to the cut-off ties are thus eliminated.

The MK9P series is ideally designed to apply heavy-duty ties (T50-T250) as well as clamp and button head ties. The MK9P series incorporates the next level of ergonomic improvement with its low weight, comfortable grip and easy trigger depression.



#### Features and Benefits

- Unique levels of repeatability and accuracy.
- High application speed and low maintenance.
- Improved compressed air supply for faster tensioning piston movement.
- Shorter processing time and greater volume of connecting tie application.
- Ergonomic design.
- Automatic ejection of cut-off cable tie end.
- Low weight, comfortable grip and easy trigger depression.

PART NO.	TYPE	Description	Cable Tie Series	Pkg. Qty.
MK9P	MK9P	Handle Air Supply Connection	T50 thru T250 Series CTT20 thru CTT175 Series EI-TY Series Button Head Series	1
MK9PUA		Top Air Supply Connection	T50 thru T250 Series CTT20 thru CTT175 Series EI-TY Series Button Head Series	1

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

### Pneumatic Tools

#### MK9PSST Tool

The MK9 Pneumatic Stainless Steel Tool (MK9PSST) is constructed with heavy-duty parts to ensure optimum performance in demanding environments. It is ideally designed to apply stainless steel MBT-Series (Metall Ball Tie Series) up to 16.0 mm width.

The MK9PSST incorporates the next level of ergonomic improvement with its low weight, comfortable grip and easy trigger depression. Very durable, the pneumatic MK9PSST features adjustable, easy to read tension settings. The tool operates on air pressure between 3 and 6 bar.

#### Features and Benefits

- Unique levels of repeatability and accuracy.
- High application speed and low maintenance.
- Improved compressed air supply for faster tensioning piston movement.
- Shorter processing time and greater volume of connecting tie application.
- Ergonomic design.
- Automatic ejection of cut-off cable tie end.
- Ideally designed to apply stainless steel MBT-Series up to 16.0 mm width.



PART NO.	TYPE	Description	Cable Tie Series	Pkg. Qty.
110-95300	MK9PSST	MK9PSST Pneumatic Tool	MBT-Series up to 16 mm width	1

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

# Application Tools

## Cable Tie Application Tools

### Pneumatic Tools

#### Accessories for MK7 and MK9 Tools

HellermannTyton offers a portable kit that incorporates carbon dioxide (CO<sub>2</sub>) as the primary air source. This unique feature will allow for greater flexibility, mobility and the elimination of an air line to the tool.

#### Features and Benefits

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



PART NO.	TYPE	Description	Pkg. Qty.
MK7P-446	MK7P-446	MK7P 10" Whip Hose	1
MKPCOHOSE	MKPCOHOSE	MK7P and MK9P Regulator and Hose for HPA tanks.	1
110-11329	MK7P-NP-STD	MK7P Nosepiece	1
110-11330	MK7-NP-2MM	MK7P 1 mm extended tail nosepiece	1
110-11331	MK7P-NP-3MM	MK7P 2 mm extended tail nosepiece	1
110-11332	MK7P-NP-4MM	MK7P 3 mm extended tail nosepiece	1
MK7P-342	SP MK7P replacement blade	MK7P Replacement Blade	1
MK9P-109	SP MK9P replacement blade	MK9P Replacement Blade	1

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

### Manual Tools

#### EVO® 7 Tool

HellermannTyton's EVO 7 mechanical hand tool is ergonomically designed to reduce the risks of repetitive stress injuries to operators while simultaneously increasing productivity. The EVO 7 Tension/Lock/Cut Technology delivers performance, safety and comfort for operators. Available in a standard grip span (EVO 7) or short grip span (EVO 7SP) for smaller hands. Additional accessories are available.

#### Features and Benefits

- Advanced TLC technology provides operational reliability and durability resulting in fewer repairs and an extended lifespan.
- Lightweight tool with the most technologically advanced ergonomic design for reducing work-related risks such as fatigue and injury that effect productivity.
- Tension dial offers 33 precise, easy-to-read settings (with ¼" increments) that reduce subjectivity or the need for fine tuning.
- Tension lock-in mechanism prevents operator from changing tension setting during critical applications.



PART NO.	TYPE	Description	Cable Tie Series	Pkg. Qty.
110-70084	EVO7SP	EVO 7SP Mechanical Hand Tool, short hand span 80	T18, T30, T40, T50, T80, IT18, IT50	1
110-70083	EVO7	EVO 7 Mechanical Hand Tool, standard hand span 90	T18, T30, T40, T50, T80, IT18, IT50	1
110-70131	EVO7 nosepiece 1mm	EVO 7 and EVO 7SP Nosepiece, 1 - 3	-	1
110-70132	EVO7 nosepiece 2mm	EVO 7 and EVO 7SP Nosepiece, 2	-	1
110-70133	EVO7 nosepiece 3mm	EVO 7 and EVO 7SP Nosepiece, 3	-	1
110-70106	BLADEKIT	EVO 7 and EVO 7SP blade replacement kit, (1) blade, (1) nosepiece screw	-	1
110-70089	CALTOOL	EVO 7 Calibration tool	-	1
110-70091	T8SD	EVO 7 T8 star driver	-	1

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



*Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.*

### Manual Tools

#### EVO® 9 Tool

The EVO 9 has redefined the cable tie application tool, by combining durability, precision and control with unparalleled comfort. Manufactured with high-performance materials and components, the EVO 9 has been proven to outperform and outlast other professional manual tools on the market. Its innovative, ergonomic design minimizes the stress on hands and wrists and “kickback” that occur with traditional tools, reducing the risk of repetitive-motion injuries. The HT model offers high tension while the SP model features a smaller grip.

#### Features and Benefits

- Tensions and provides clean, flush cuts for 50lb. to 250lb. cable ties, including wide strap ties.
- Impact-resistant housing and durable components for extended service life.
- Easy-to-adjust tension knob offers 33 different settings for precise, repeatable applications.
- Advanced ergonomic design minimizes necessary hand force and “kickback” to reduce repetitive-motion injuries.
- All separately sold accessories are compatible with the EVO 9 series tools.



PART NO.	TYPE	Description	Cable Tie Series	Pkg. Qty.
110-80000	EVO9	EVO 9 Mechanical Hand Tool, Standard Hand Span	T50, T80, T120, T150, T250, T255, WS	1
110-80004	EVO9HT	EVO 9HT High Tension Mechanical Hand Tool	T120, T150, T250, T255, WS	1
110-80001	EVO9SP	EVO 9 Mechanical Hand Tool, Short Hand Span	T50, T80, T120, T150, T250, T255, WS, LK2, LK3, LK5, GL, ECO Series Ties	1
110-80037	Replacement Blade	EVO 9 Replacement Blade	-	1
110-80018	EVO9	EVO 9 Replacement Nosepiece, Flush Cut	-	1
110-80064		EVO 9 2mm Nosepiece, Extended Tail	-	1
110-80065		EVO 9 3mm Nosepiece, Extended Tail	-	1
110-80066		EVO 9 4mm Nosepiece, Extended Tail	-	1
110-80067		EVO 9 5mm Nosepiece, Extended Tail	-	1

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

### Manual Tools

#### MK7HT Tool

The MK7HT is particularly suitable for applications requiring cable ties to be very tightly applied, due to its increased pulling force.

#### Features and Benefits

- Light glass fiber reinforced housing.
- Ergonomic design.
- Consistent tensioning and flush cutting.
- Infinitely adjustable tension force combined with three-step quick adjustment.



PART NO.	TYPE	Description	Cable Tie Series	Pkg. Qty.
MK7HT	MK7HT	Mark 7 High Tension Tool	T30 - T50 Series, CTT20 - CTT60 Series	1

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

#### MK9RC Tool

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

#### Features and Benefits

- Ergonomic tool for use anywhere.
- Extremely low maintenance.
- Adjustable preset tension device.
- Tensions and automatically cuts HellermannTyton cable ties up to 4.8 mm wide.
- Very light weight and ergonomic for easier handling.
- Housing made of resilient and lightweight glass fibre-reinforced polyester.
- MIL approved.



PART NO.	TYPE	Description	Cable Tie Series	Pkg. Qty.
110-09980	MK9RC	Adjustable tensioning and cut-off tool	T18-T250 Series CTT20-CTT175 Series EL-TY Series Wide Strap Series	1

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

### Manual Tools

#### MK9SST Tool

With its lightweight, ergonomic design, the MK9SST is an ideal tool for applying the MBT-series stainless steel cable ties. Although it is used for applying stainless steel ties, the MK9SST enables work to be carried out without operator fatigue and is easy on joints. For easier handling the tensioning is fully adjustable by means of a quick two-level control with an additional fine setting. This avoids damage and constrictions to the bundled materials. The cable ties are cut off automatically flush with the head when the preset tensioning level has been reached.

#### Features and Benefits

- Glass fiber reinforced housing.
- Ergonomic design.
- Consistent tensioning and automatic cutting of metal ties MBT-Series.
- Infinitely adjustable tension force combined with two-step quick adjustment.



PART NO.	TYPE	Description	Cable Tie Series	Pkg. Qty.
MK9SST	MK9SST	Mark 9 Stainless Steel Tie Tensioning and Cut-Off Tool	All MBT Series for both 304 and 316 materials	1
110-95273	SP MK9SST replacement blade	MK9SST G2 Blade	-	1
110-95291	Front Nosepiece	MK9SST Front Nosepiece	-	1

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

#### Kabelrap Tool

The KR6/8 tool crimps the glass-fibre-reinforced locking pin of the KR seal and leads to plastic deformation of the tie ends. This produces a very proof permanent connection.

#### Features and Benefits

- KR6/8 tool tensions, cuts, and presses the locking pin through the head to lock it in place.
- Designed specifically for the Kabelrap ties to assure a permanent installation.



PART NO.	TYPE	Description	Cable Tie Series	Pkg. Qty.
121-00680	KR6/8	KR6/8 Tool	KR6 and KR8 series	1

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



### Manual Tools

#### Tyton Twyster-Twist Tool

The TytonTwyster (TWT1) is a lightweight and economical twist tool that offers speed and efficiency. It can be used on HellermannTyton T18 thru T50 series.

#### Features and Benefits

- Inexpensive alternative to heavy duty tool allowing user to save money.
- Use with HellermannTyton ties up to 0.19" wide for a variety of available options.
- Lightweight design reduces operator fatigue.
- Simply twist to cut for reduced effort.



PART NO.	TYPE	Description	Pkg. Qty.
TWT1	TWT	Twist Tool for standard cable ties.	1

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

#### Mechanical Tool Accessories

#### Features and Benefits

- A portable pull force gauge that measures tensile force and displays digital reading on the LCD screen.
- NiCD battery and built-in memory backup for on-site calibration of tools.
- Can be used with all HellermannTyton mechanical hand tools.



PART NO.	TYPE	Description	Pkg. Qty.
110-99000	UC200	UC200 Tension Gauge	1

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



**Inspired by productivity**

Meet a better solution to a 90-year-old technology. HelaCon Plus Mini beats the old, twist-on wire connector. It instantly connects two or more wires from 12-22 AWG with a simple push and holds them more reliably thanks to a double-spring retention system. Its ultra-small footprint fits better in tight electrical enclosures, too.



Wire Connectors.....	508
General Purpose Electrical Tape.....	510
Special Purpose Electrical Tape.....	511

### Connectors - For Solid and Stranded Wires

#### HelaCon Plus Mini

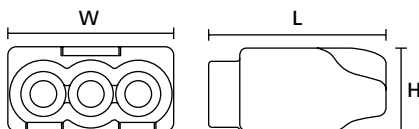
HelaCon Plus Mini Wire Connectors replace traditional twist-on wire connectors. They provide faster, easier and more reliable connection and distribution of cable and conductors in electrical installation applications. Mini connectors have a compact footprint and can be applied tool-free using convenient, push-in simplicity. Internal spring technology is approved for solid and stranded wires.

#### Features and Benefits

- Spring technology for safe, secure and reliable connections.
- Smaller footprint fits in tight spaces.
- Low insertion force makes installation of solid or stranded copper wire fast and easy.
- Color coded for easy identification of size.
- Each port accepts multiple wire diameters for flexible applications.
- Accepts 12–22 AWG solid wire and 14–22 AWG stranded wire.



<b>Material Housing</b>	Polycarbonate (PC)
<b>Material Plated Brass</b>	Brass Tinned
<b>Material Spring Plate</b>	Stainless Steel (SS)
<b>Max Current</b>	24 A
<b>Voltage Rating (cULus)</b>	600 V
<b>Voltage Rating (VDE)</b>	450 V
<b>Wire Range (cULus)</b>	12 AWG to 22 AWG Solid Copper Wires / 14 AWG to 22 AWG Tin-Dipped Copper Stranded Wire
<b>Wire Range (VDE) in mm<sup>2</sup></b>	0.5 to 2.5 mm <sup>2</sup> solid wires / 1.0 to 2.5 mm <sup>2</sup> stranded wires
<b>Stripping Length (Imperial)</b>	0.43 "
<b>Stripping Length (Metric)</b>	11.0 mm
<b>Flammability</b>	UL 94 V0
<b>Operating Temperature</b>	-22°F to +185°F (-30°C to +85°C)



PART NO.	TYPE	Color	Number of Conductors	Width (W) in. (mm)	Height (H) in. (mm)	Depth (D) in. (mm)	Pkg. Qty.
148-90036*	HCPM-2	Clear, Yellow	2	0.4 (10.8)	0.3 (7.7)	0.7 (16.5)	150
148-90048*		Clear, Yellow	2	0.4 (10.8)	0.3 (7.7)	0.7 (16.5)	500
148-90037*	HCPM-3	Clear, Orange	3	0.6 (15.1)	0.3 (7.7)	0.7 (16.5)	100
148-90049*		Clear, Orange	3	0.6 (15.1)	0.3 (7.7)	0.7 (16.5)	400

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

\*This product meets UL standards. Please see appendix for specific file numbers.



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### Connectors - For Solid and Stranded Wires

#### HelacOn Plus Mini

PART NO.	TYPE	Color	Number of Conductors	Width (W) in. (mm)	Height (H) in. (mm)	Depth (D) in. (mm)	Pkg. Qty.
148-90038*	HCPM-4	Clear	4	0.8 (19.4)	0.3 (7.7)	0.7 (16.5)	100
148-90050*		Clear	4	0.8 (19.4)	0.3 (7.7)	0.7 (16.5)	300
148-90039*	HCPM-5	Clear, Blue	5	0.9 (23.7)	0.3 (7.7)	0.7 (16.5)	75
148-90051*		Clear, Blue	5	0.9 (23.7)	0.3 (7.7)	0.7 (16.5)	300
148-90040*	HCPM-6	Clear, Violet	6	1.1 (28.0)	0.3 (7.7)	0.7 (16.5)	50
148-90052*		Clear, Violet	6	1.1 (28.0)	0.3 (7.7)	0.7 (16.5)	250
148-90041*	HCPM-8	Clear, Black	8	1.4 (36.6)	0.3 (7.7)	0.7 (16.5)	50
148-90053*		Clear, Black	8	1.4 (36.6)	0.3 (7.7)	0.7 (16.5)	200

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

\*This product meets UL standards. Please see appendix for specific file numbers.



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### Electrical Tape

#### PVC Tape

PVC electrical tape provides fast and easy color coding, cable splicing, terminating, and wire insulating. These conformable high quality tapes have exceptional surface and adhesive characteristics. Tape is applied by overlapping each layer 50% and using tension. After the tape is adhered, the memory of the tape returns, tightening the seal and making the taped area even more waterproof.

#### Features and Benefits

- PVC Tape is ideal for general purpose electrical applications.
- Economical way to splice, terminate and insulate wire and cables.
- Meets Mil-Std. MIL-1-7798-A.



<b>MATERIAL</b>	Flexible Polyvinyl Chloride (PVC)
<b>Adhesion</b>	16 oz./inch
<b>Tensile Strength</b>	15.4 lbs
<b>Operating Temperature</b>	+20°F to 176°F (-7°C to +80°C)

PART NO.	TYPE	Width (W) in. (mm)	Roll Length ft. (m)	Thickness (T)	Material	Color	Pkg. Qty.
ET330*	ET33	0.75 (19.05)	33.0 (10.0)	7.0 mil	PVC	Black	10
ET660*	ET66	0.75 (19.05)	66.0 (20.1)	7.0 mil	PVC	Black	10
ETST666*	ETST66	0.75 (19.05)	66.0 (20.1)	7.0 mil	PVC	Blue	10
ETST668*		0.75 (19.05)	66.0 (20.1)	7.0 mil	PVC	Gray	10
ETST665*		0.75 (19.05)	66.0 (20.1)	7.0 mil	PVC	Green	10
ETST663*		0.75 (19.05)	66.0 (20.1)	7.0 mil	PVC	Orange	10
ETST662*		0.75 (19.05)	66.0 (20.1)	7.0 mil	PVC	Red	10
ETST6610*		0.75 (19.05)	66.0 (20.1)	7.0 mil	PVC	White	10
ETST664*		0.75 (19.05)	66.0 (20.1)	7.0 mil	PVC	Yellow	10

Dimensions in mm, inches in brackets. Subject to technical changes.

\*This product meets UL standards. Please see appendix for specific file numbers.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

### Special Purpose Electrical Tape

#### Weather Resistant PVC

Heavy duty vinyl tapes are ideal for outdoor applications. Tape provides fast, easy and economical cable splicing, terminating, wire insulating, and more. These conformable high quality tapes have exceptional surface and adhesive characteristics. Tape is applied by overlapping each layer 50% and using tension. After the tape is adhered, the memory of the tape returns, tightening the seal and making the taped area even more waterproof.

#### Features and Benefits

- Heavy duty PVC tape is ideal for cold weather installations and is "weather resistant" for outdoor applications.
- Meets Mil-Std. MIL-1-24391-A.



<b>MATERIAL</b>	Flexible Polyvinyl Chloride (PVC)
<b>Adhesion</b>	17 oz./inch
<b>Tensile Strength</b>	20.0 lbs
<b>Operating Temperature</b>	0 °F to +194 °F (-17.8 °C to +90 °C)

PART NO.	TYPE	Width (W) in. (mm)	Roll Length ft. (m)	Thickness (T)	Material	Color	Pkg. Qty.
ETCW660*	ETCW66	0.75 (19.05)	66.0 (20.1)	8.0 mil	PVC	Black	10

Dimensions in mm, inches in brackets. Subject to technical changes.

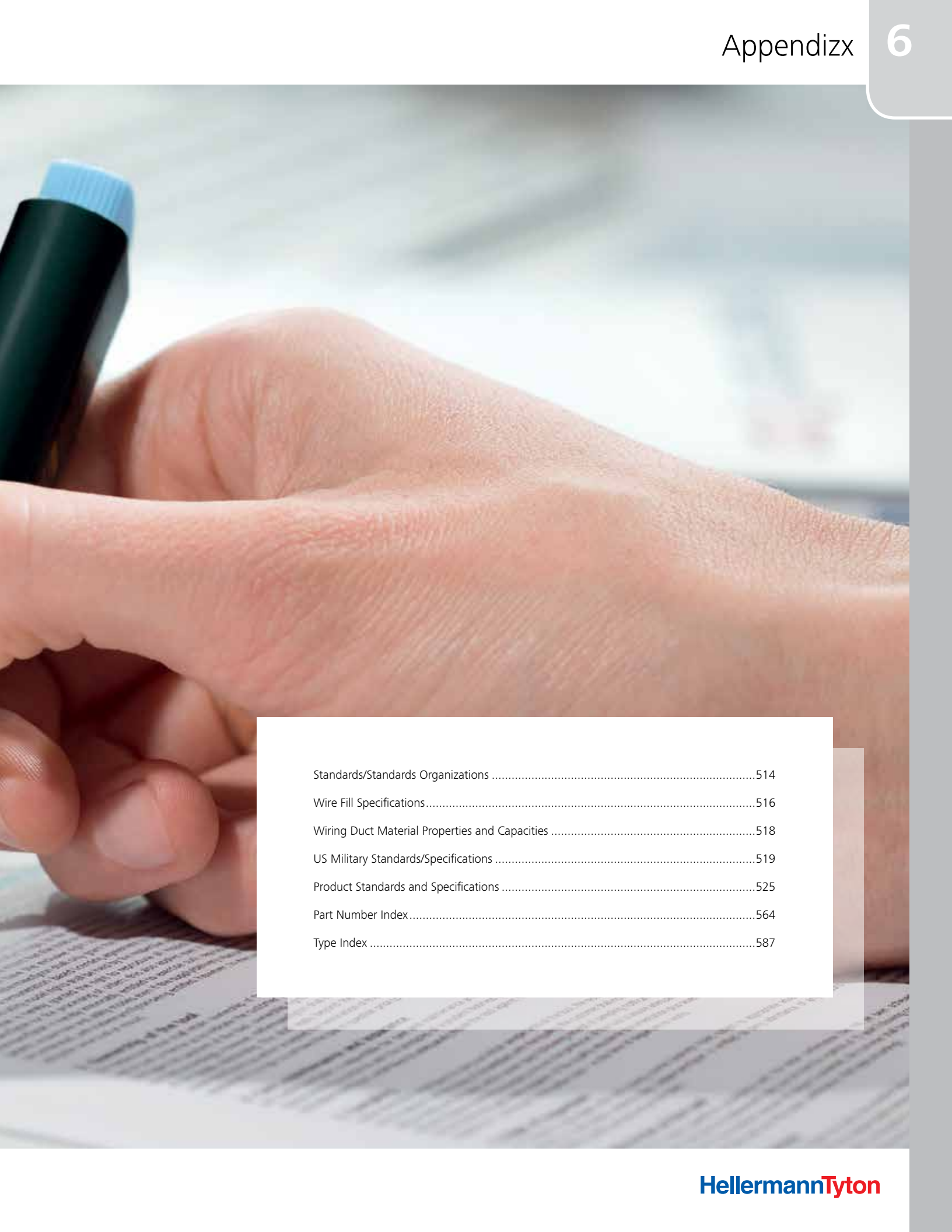
\*This product meets UL standards. Please see appendix for specific file numbers.



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A close-up photograph of a person's hand holding a green highlighter with a blue cap. The hand is positioned over a document with some text visible. The background is blurred, showing what appears to be an office or industrial setting.

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### Standards/Standards Organizations/Authorities

ABS	American Bureau of Shipping	USA	
ASN	AeroSpatiale Normalisation	France	
ASTM	ASTM International	USA	
BS	British Standard	Great Britain	
DAN	Deutsche Airbus Norm	Europe	
DEF STAN	Defence Standard	Great Britain	
FCC	Federal Communications Commission	USA	
LEA	Liste des Equivalences Approuvés	France	
MIL	Military Specification	USA	
MS	Military Standard	USA	
NASM	National Aerospace Standard, Metric	USA	
NF F	Norme Française Ferroviaire	France	
SAE	Society of Automotive Engineers	USA	
STD	Standard for Dassault	France	
UNI CEI	Ente Nazionale Italiano di Unificazione Comitato Elettrotecnico Italiano	Italy	
VG	Verteidigungsgerätenorm der Bundeswehr	Germany	

## References

NSA	Norm Sud Aviation	France	
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## Testing Institute/Certifying Company

BV	Bureau Veritas	France	
CSA	Canadian Standards Association	Canada	
DEMKO	Danske Elektriske Materialekontrol	Denmark	
DNV	Det Norske Veritas	Norway	
DNV GL	Det Norske Veritas + Germanischer Lloyd	Norway	
IMQ	Certificazione di prodotti	Italy	
FIMKO	Suomalainen testaus ja sertifiointiyriyitys	Finland	
KEMA KEUR	KEMA Quality B.V.	Netherlands	
LR	Lloyd's Register	Great Britain	
NEMKO	Norges Elektriske Materiellkontroll	Norway	
SEMKO	Sveriges Elektriska Materielkontroll	Sweden	
UL	Underwriters Laboratories	USA	
UL	Underwriters Laboratories	USA	
VDE	Verband der Elektrotechnik, Elektronik, Informationstechnik	Germany	

### Certification mark

CE	Conformité Européenne	Europe	
CEBEC	Comité for electrotechnical Belgium European Community	Belgium	
ENEC	European Norms Electrical Certification	Europe	
GS	Geprüfte Sicherheit	Europe	
JAR/FAR	Joint Aviation Regulations / Federal Aviation Regulations	Europe, USA	
JN	Particular Specification developed for Eurofighter Program		
UL Recognized	Underwriters Laboratories	USA	
cULus	Underwriters Laboratories	USA	
VDE	Verband der Elektrotechnik, Elektronik, Informationstechnik	Germany	

### Wire Fill Chart – TSRP 600v Rated Raceway System

WIRE TYPE	WIRE SIZE	O.D. of Wire	Power Rated - TSRP					
			TSRP 1 A = 0.220 in <sup>2</sup>		TSRP 2 A = 0.651 in <sup>2</sup>		TSRP3 A = 1.361 in <sup>2</sup>	
			Spec	Max	Spec	Max	Spec	Max
Twisted Pair 24 AWG Unshielded	2 Pr.	0.140	5	8	16	25	35	53
	3 Pr.	0.150	4	7	14	22	30	46
	4 Pr. Cat 5e	0.217	2	3	7	10	14	22
	4 Pr. Cat 6	0.240	1	2	5	8	12	18
	25 Pr.	0.410	0	0	1	2	4	6
	4 Pr. Cat 6a	0.354	0	1	2	3	5	8
Coax	RG58/U	0.193	2	4	8	13	18	27
	RG59/U or RG62/U	0.242	1	2	4	6	9	14
	RG6/U	0.270	1	2	4	6	9	14
Fiber Optic FA Jacket OFNP	2 Strand	0.175	3	5	10	16	22	33
	4 Strand	0.185	3	4	9	14	20	30
	6 Strand	0.210	2	3	7	11	15	23
Electrical Wire	14 AWG THHN	0.105	-	8	-	11	-	11
	12 AWG THHN	0.122	-	6	-	9	-	9
	10 AWG THHN	0.153	-	4	-	6	-	5

### Wire Fill Chart – TSR Low Voltage Raceway System

WIRE TYPE	WIRE SIZE	O.D. of Wire	Low Voltage - TSR					
			TSR1 A = 0.220 in <sup>2</sup>		TSR2 A = 0.675 in <sup>2</sup>		TSR3 A = 1.384 in <sup>2</sup>	
			Spec	Max	Spec	Max	Spec	Max
Twisted Pair 24 AWG Unshielded	2 Pr.	0.140	5	8	17	26	35	53
	3 Pr.	0.150	4	7	15	22	31	46
	4 Pr. Cat 5e	0.217	2	3	7	10	14	22
	4 Pr. Cat 6	0.240	1	2	5	8	12	18
	25 Pr.	0.410	0	0	2	3	4	6
	4 Pr. Cat 6a	0.354	0	1	2	4	5	8
Coax	RG58/U	0.193	3	4	9	13	18	28
	RG59/U or RG62/U	0.242	1	2	5	8	12	18
	RG6/U	0.270	1	2	4	7	9	14
Fiber Optic FA Jacket OFNP	2 Strand	0.175	3	5	11	16	23	34
	4 Strand	0.185	3	4	10	15	20	30
	6 Strand	0.210	2	3	7	11	15	23

### Wire Fill Chart – Multi-Channel Raceway System

LOW VOLTAGE	RACEWAY		Channel 1		Channel 2		Channel 3		Channel 4		Channel 5		Channel 6	
	AREA OF RACEWAY		6.40in <sup>2</sup>		1.220in <sup>2</sup>		4.260in <sup>2</sup>		5.880in <sup>2</sup>		0.800in <sup>2</sup>		2.450in <sup>2</sup>	
WIRE TYPE	WIRE SIZE	O.D. of Wire	Spec	Max	Spec	Max	Spec	Max	Spec	Max	Spec	Max	Spec	Max
Twisted Pair 24 AWG Unshielded	2 Pr.	0.140	166	249	31	47	110	166	152	229	20	31	63	95
	3 Pr.	0.150	144	217	27	41	96	144	133	199	18	27	55	83
	4 Pr. Cat 5e	0.217	69	103	13	19	46	69	63	95	8	12	26	39
	4 Pr. Cat 6	0.240	56	84	10	16	37	56	51	77	7	10	21	32
	4 Pr. Cat 6a	0.354	26	39	4	7	17	25	23	35	3	4	9	14
	25 Pr.	0.410	19	29	3	5	12	19	17	26	2	3	7	11
Coax	RG58/U	0.193	87	131	16	25	58	87	80	120	10	16	33	50
	RG59/U or RG62/U	0.242	55	83	10	15	37	55	51	76	6	10	21	31
	RG6/U	0.270	44	67	8	12	29	44	41	61	5	8	17	25
Fiber Optic FA Jacket OFNP	2 Strand	0.175	106	159	20	30	70	106	97	146	13	19	40	61
	4 Strand	0.185	95	142	18	27	63	95	87	131	11	17	36	54
	6 Strand	0.210	73	110	14	21	49	73	67	101	9	13	28	42
Fiber Optic 62.5/125/900 PVC Jacket OFNR	2 Strand	0.175	106	159	20	30	70	106	97	146	13	19	40	61
	4 Strand	0.185	95	142	18	27	63	95	87	131	11	17	36	54
	6 Strand	0.210	73	110	14	21	49	73	67	101	9	13	28	42
	8 Strand	0.230	61	92	11	17	41	61	56	84	7	11	23	35
	10 Strand	0.250	52	78	9	14	34	52	47	71	6	9	19	29
Electrical Wire	14 AWG THHN	0.105		17		10		-		-		9		-
	12 AWG THHN	0.122		14		7		-		-		7		-
	10 AWG THHN	0.153		10		5		-		-		5		-

Formula used to calculate communications wire fill capacity - Numbers of wires = duct /  $\{1/4 \times 3.14 \times (\text{wire o.d.})^2\} \times 0.4$  or 0.6. Per ANSI/TIA/EIA-569-A-:

SPEC = 40% fill which is recommended for planning perimeter pathways

MAX (for data) = 60% fill which is allowed to accommodate unplanned additions after initial installation

MAX (for power) = Maximum number determined by UL temperature testing

Note: It is recommended to bundle electrical cables in raceway

The adhesive strip may serve only as a positioning aid during installation. The raceway shall be secured by mechanical fastening.

# Appendix

## Product Approvals and Specifications

### Material Properties and Capacity Chart

#### Wiring Duct Material Properties

Physical Properties	Material	ASTM Method	Test Units	Test Results
Specific Gravity (Gray)	PVC	D-792		1.4
Durometer Hardness	PVC	D-2240	Shore Hardness	77D
Flexural Strength	PVC	D-790	psi	9,900
Modulus of Elasticity (Tension)	PVC	D-638	psi	351,000
Continuous Operating Temperature	PVC	UL746B	°F (°C)	122 (50)
Heat Deflection Temperature (264 psi)	PVC	D-648	°F (°C)	161 (72)
Tensile Strength (+73°F)	PVC	D-638	psi	6,500
Izod Impact Strength (+73°F)	PVC	D-256	ft. lbs./in. notch	15
Flame Resistance	PVC	D-635	-	Self-Extinguishing
UL Standard 94	PVC	-	.029 and .062	94V-O

#### Wiring Capacity

Duct Size (W"xH")	Duct Area (Sq. In.)	ELECTRICAL						DATA			
		10 AWG	12 AWG	14 AWG	14 AWG	16 AWG	18 AWG	22 AWG	CAT 5E	CAT 6	CAT 6A
		WIRE O.D.									
		0.176	0.158	0.165	0.139	0.125	0.113	0.065	0.217	0.240	0.354
0.5x0.5	0.18	4	5	4	6	7	9	27	2	2	1
0.5x1	0.38	8	10	9	13	15	19	57	5	4	2
0.75x0.75	0.28	6	7	7	9	11	14	42	4	3	1
1x1	0.735	15	19	17	24	30	37	111	10	8	4
1x1.5	1.135	23	29	27	37	46	57	171	15	1	6
1x2	1.515	31	39	35	50	62	76	228	20	17	8
1x3	2.22	46	57	52	73	90	111	335	30	25	11
1x4	2.936	60	75	69	97	120	146	443	40	32	15
1.5x1	1.205	25	31	28	40	49	60	182	16	13	6
1.5x1.5	1.85	38	47	43	61	75	92	279	25	20	9
1.5x2	2.475	51	63	58	82	101	123	373	33	27	13
1.5x3	3.669	75	94	86	121	150	183	553	50	41	19
1.5x4	4.881	100	125	114	161	199	243	736	66	54	25
2x1	1.678	35	43	39	55	68	84	253	23	19	9
2x2	3.438	71	88	80	113	140	171	518	47	38	17
2x3	5.122	105	131	120	169	209	255	772	69	57	26
2x4	6.829	140	174	160	225	278	341	1030	92	76	35
2x5	8.488	175	217	199	280	346	423	1280	115	94	43
2.5x3	6.564	135	167	154	216	268	327	990	89	73	33
3x1	2.57	53	66	60	85	105	128	388	35	28	13
3x2	5.36	110	137	125	177	219	268	809	73	59	27
3x3	8.03	165	205	188	265	327	400	1210	109	89	41
3x4	10.72	221	274	251	354	437	535	1617	145	119	55
3x5	13.38	275	341	313	441	546	668	2017	181	148	68
4x2	7.288	150	186	171	240	297	364	1099	99	81	37
4x3	10.932	225	279	256	360	446	545	1648	148	121	56
4x4	14.62	301	373	342	482	596	729	2204	198	162	74
4x5	18.27	375	466	427	602	745	911	2754	247	202	93
6x4	22.4	461	572	524	739	913	1117	3377	303	248	114
8x4	30.16	620	770	706	994	1230	1505	4548	408	334	153

## Bundling and Securing US Military Standards

Part No.	US MILSPEC
<b>IT18R</b>	
IT18R2C2	MS3368-5-2E, SAE-AS33681
IT18R2L4	
IT18R3C2	MS3368-5-3E, SAE-AS33681
IT18R3L4	
IT18R4L4	MS3368-5-4E, SAE-AS33681
IT18R6C2	MS3368-5-6E, SAE-AS33681
IT18R6L4	
IT18R8C2	MS3368-5-8E, SAE-AS33681
IT18R9C2	MS3368-5-9E, SAE-AS33681
IT18R9L4	
<b>IT50L</b>	
IT50L0M4	MS3368-2-0A, SAE-AS33681
IT50L3M4	MS3368-2-3A, SAE-AS33681
IT50L4M4	MS3368-2-4A, SAE-AS33681
IT50L6M4	MS3368-2-6A, SAE-AS33681
IT50L9C2	MS3368-2-9A, SAE-AS81531
<b>IT50R</b>	
IT50R2C2	MS3368-1-2A, SAE-AS33681
IT50R3M4	MS3368-1-3A, SAE-AS33681
IT50R4C2	MS3368-1-4A, SAE-AS33681
IT50R9C2	MS3368-1-9A, SAE-AS81531
IT50R9M4	MS3368-1-9A, SAE-AS33681
<b>IT50RD</b>	
IT50RD4K2	MS3368-3-4C, SAE-AS33681
IT50RD9K2	MS3368-3-9C, SAE-AS81531
<b>IT50RT</b>	
IT50RT4K2	MS3368-4-4D, SAE-AS33681
IT50RT9K2	MS3368-4-9D, SAE-AS81531
<b>T120L</b>	
T120L0H5K2	MS3367-1-10
T120L0K2	
T120L0UVK2	SAE-AS33671, MS3367-6-0
T120L9K2	MS3367-6-9, SAE-AS33671
<b>T120R</b>	
T120R0H4	MS3367-1-10
T120R0H5H4	
T120R0H5K2	
T120R0K2	
T120R0UVC2	MS3367-3-0, SAE-AS33671
T120R0UVH4	
T120R9H4	MS3367-3-9, SAE-AS33671
T120R9K2	

Part No.	US MILSPEC
<b>T150L</b>	
T150L0X2	MS3367-1-10
T150L9X2	
<b>T18R</b>	
T18R0HSC2	MS3367-1-10
T18R0H5M4	
T18R0UVC2	MS3367-4-0, SAE-AS81531
T18R0UVM4	MS3367-4-0, SAE-AS33671
T18R10M4	MS3367-1-10
T18R1M4	MS3367-4-1, SAE-AS33671
T18R2M4	MS3367-4-2, SAE-AS33671
T18R3M4	MS3367-4-3, SAE-AS33671
T18R4M4	MS3367-4-4, SAE-AS33671
T18R5M4	MS3367-4-5, SAE-AS33671
T18R6M4	MS3367-4-6, SAE-AS33671
T18R7M4	MS3367-4-7, SAE-AS33671
T18R8M4	MS3367-4-8, SAE-AS33671
T18R9C2	MS3367-4-9
T18R9M4	
<b>T30R</b>	
T30R0HSC2	MS3367-1-10
T30R0H5M4	
T30R0UVC2	MS3367-5-0, SAE-AS81531
T30R0UVM4	MS3367-5-0, SAE-AS81531, SAE-AS33671
T30R10C2	MS3367-1-10
T30R10M4	
T30R1C2	MS3367-5-1, SAE-AS33671
T30R1M4	
T30R2C2	MS3367-5-2, SAE-AS33671
T30R2M4	
T30R3C2	MS3367-5-3, SAE-AS33671
T30R3M4	
T30R4C2	MS3367-5-4, SAE-AS33671
T30R4M4	
T30R5C2	MS3367-5-5, SAE-AS33671
T30R5M4	
T30R6C2	MS3367-5-6, SAE-AS33671
T30R6M4	
T30R7C2	MS3367-5-7, SAE-AS33671
T30R7M4	
T30R8C2	MS3367-5-8, SAE-AS33671
T30R8M4	
T30R9C2	MS3367-5-9, SAE-AS81531
T30R9M4	

### Bundling and Securing US Military Standards

Part No.	US MILSPEC
<b>T50I</b>	
T50I0C2	MS3367-1-10
T50I0HSC2	
T50I0HSM4	
T50I0M4	
T50I0UVC2	MS3367-5-0, SAE-AS33671
T50I0UVM4	
T50I9C2	SAE-AS81531, MS3367-7-9
T50I9M4	MS3367-5-9, SAE-AS81531
<b>T50L</b>	
T50L0UVC2	MS3367-5-0, SAE-AS33671
T50L0UVM4	
T50L1C2	MS3367-2-1, SAE-AS33671
T50L2C2	MS3367-2-2, SAE-AS33671
T50L2M4	
T50L3C2	MS3367-2-3, SAE-AS33671
T50L3M4	
T50L4C2	MS3367-2-4, SAE-AS33671
T50L4M4	
T50L5C2	MS3367-2-5, SAE-AS33671
T50L5M4	
T50L6C2	MS3367-2-6, SAE-AS33671
T50L6M4	
T50L8C2	MS3367-2-8, SAE-AS33671
T50L8M4	
T50L9C2	MS3367-5-9, SAE-AS81531
T50L9M4	MS3367-2-9, SAE-AS33671
<b>T50R</b>	
T50R0C2	MS3367-1-10
T50R0HSC2	
T50R0HSM4	
T50R0UVC2	MS3367-1-0, SAE-AS33671
T50R0UVM4	MS3367-5-0, SAE-AS33671
T50R10C2	MS3367-1-10
T50R10M4	
T50R1C2	MS3367-1-1, SAE-AS33671
T50R1M4	
T50R2C2	MS3367-1-2, SAE-AS33671
T50R2M4	
T50R3C2	MS3367-1-3, SAE-AS33671
T50R3M4	
T50R4C2	MS3367-1-4, SAE-AS33671
T50R4M4	
T50R5C2	MS3367-1-5, SAE-AS33671
T50R5M4	

Part No.	US MILSPEC
T50R6C2	MS3367-1-6, SAE-AS33671
T50R6M4	
T50R7C2	MS3367-1-7, SAE-AS33671
T50R7M4	
T50R8C2	MS3367-1-8, SAE-AS33671
T50R8M4	
T50R9C2	MS3367-5-9, SAE-AS81531
T50R9M4	MS3367-1-9, SAE-AS81531

### Routing, Protection and Insulation US Military Standards

Part No.	US MILSPEC
<b>BSHKLPFR120B</b>	
170-03153	MIL-STD-202
<b>BSHKLPFR340B</b>	
170-03154	MIL-STD-202
<b>BSHKLPFR1140B</b>	
170-03155	MIL-STD-202
<b>BSHKLPFR200B</b>	
170-03156	MIL-STD-202
<b>BSHKLPFR212B</b>	
170-03157	MIL-STD-202
<b>G51TC</b>	
251-30309	MS21266-3T
<b>G51TD</b>	
251-30409	MS21266-4T
<b>G51TE</b>	
251-30509	MS21266-5T
<b>G51TF</b>	
251-30609	MS21266-6T
<b>G51TG</b>	
251-30709	MS21266-7T
<b>G51TH</b>	
251-30809	MS21266-8T
<b>G51NA</b>	
FHA	MS21266-1N
<b>G51NB</b>	
FHB	MS21266-2N
<b>G51NC</b>	
FHC	MS21266-3N
<b>G51ND</b>	
FHD	MS21266-4N
<b>G51NE</b>	
FHE	MS21266-5N



### Routing, Protection and Insulation US Military Standards

Part No.	US MILSPEC
<b>G51NF</b>	
FHF	MS21266-6N
<b>G51NG</b>	
FHG	MS21266-7N
<b>G51TA</b>	
FTA	MS21266-1T
<b>G51TB</b>	
FTB	MS21266-2T

### Identification US Military Standards

Part No.	US MILSPEC
<b>HST3-1BK</b>	
553-50001	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST3-1WH</b>	
553-50002	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
553-50003	
<b>HST3-1WH-S</b>	
553-50004	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST3-1YE</b>	
553-50005	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
553-50006	
<b>HST3-1YE-S</b>	
553-50007	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST4.8-1.6BK</b>	
553-50008	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST4.8-1.6WH</b>	
553-50009	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
553-50010	
<b>HST4.8-1.6WH-S</b>	
553-50011	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST4.8-1.6YE</b>	
553-50012	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST4.8-1.6YE-S</b>	
553-50014	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST6-2BK</b>	
553-50015	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531

### Identification US Military Standards

Part No.	US MILSPEC
<b>HST6-2WH</b>	
553-50016	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
553-50017	
553-50018	
<b>HST6-2WH-S</b>	
553-50019	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST6-2YE</b>	
553-50020	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HTS6-2YE</b>	
553-50021	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST6-2YE-S</b>	
553-50022	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST9-3BK</b>	
553-50023	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST9-3WH</b>	
553-50024	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST9-3WH-S</b>	
553-50025	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST9-3YE</b>	
553-50026	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST9-3YE-S</b>	
553-50027	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST12-4BK</b>	
553-50028	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST12-4WH</b>	
553-50029	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST12-4WH-S</b>	
553-50030	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST12-4YE</b>	
553-50031	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST12-4YE-S</b>	
553-50032	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST18-6BK</b>	
553-50033	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531

### Identification US Military Standards

Part No.	US MILSPEC
<b>HST18-6WH</b>	
553-50034	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST18-6WH-S</b>	
553-50035	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST18-6YE</b>	
553-50036	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST18-6YE-S</b>	
553-50037	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST24-8BK</b>	
553-50038	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST24-8WH</b>	
553-50039	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST24-8WH-S</b>	
553-50040	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST24-8YE</b>	
553-50041	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST24-8YE-S</b>	
553-50042	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST3-1WH-3S</b>	
553-50063	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST4.8-1.6WH-3S</b>	
553-50064	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST6-2WH-3S</b>	
553-50065	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST9-3WH-3S</b>	
553-50066	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST3-1WH-S</b>	
553-50067	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST4.8-1.6WH-2S</b>	
553-50068	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST4.8-1.6YE-2S</b>	
553-50069	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531

Part No.	US MILSPEC
<b>HST3-1WH-2S</b>	
553-50070	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST3-1YE-2S</b>	
553-50071	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST4.8-1.6WH-2S</b>	
553-50072	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST4.8-1.6YE-2S</b>	
553-50073	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST3-1WH-S</b>	
553-50074	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST3-1WH-2S</b>	
553-50075	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST3-1YE-S</b>	
553-50076	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST3-1YE-2S</b>	
553-50077	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST3-1WH</b>	
553-50078	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST4.8-1.6WH</b>	
553-50079	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST4.8-1.6WH-S</b>	
553-50080	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST4.8-1.6WH-3S</b>	
553-50081	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST6-2WH-2S</b>	
553-50082	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST6-2YE-2S</b>	
553-50083	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST6-2WH-S</b>	
553-50084	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST6-2YE-S</b>	
553-50085	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531

## Identification US Military Standards

Part No.	US MILSPEC
<b>HST12-4WH-3S</b>	
553-50086	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST12-4YE-3S</b>	
553-50087	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST3-1WH-3S</b>	
553-50088	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST6-2WH-3S</b>	
553-50089	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST4.8-1.6WH</b>	
553-50090	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST4.8-1.6WH-S</b>	
553-50176	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST4.8-1.6WH</b>	
553-50177	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST6-2BK-3S</b>	
553-50178	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST3-1BK-S</b>	
553-50179	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST3-1BK-2S</b>	
553-50180	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST3-1BK-3S</b>	
553-50181	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST4.8-1.6BK-3S</b>	
553-50184	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST6-2BK-2S</b>	
553-50186	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST9-3BK-3S</b>	
553-50189	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST9-3WH</b>	
553-50192	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST12-4WH</b>	
553-50193	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531

Part No.	US MILSPEC
<b>HST4.8-1.6WH</b>	
553-50195	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST6-2WH</b>	
553-50196	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST18-6WH</b>	
553-50199	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST4.8-1.6WHAP</b>	
553-50203	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST6-2WHAP</b>	
553-50204	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST12-4WHAP</b>	
553-50206	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST39-13WH</b>	
553-50209	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST6-2YE-3S</b>	
553-50210	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST3-1WH-3S</b>	
553-50211	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST6-2WH-3S</b>	
553-50212	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST4.8-1.6WH-S</b>	
553-50213	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST18-6BK-S</b>	
553-50222	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST24-8BK-S</b>	
553-50223	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HFST39-13YE</b>	
553-50225	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HFST39-13WH-S</b>	
553-50226	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HFST39-13YE-S</b>	
553-50227	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531

### Identification US Military Standards

Part No.	US MILSPEC
<b>HST12-4WH</b>	
553-50231	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST12-4WH-S</b>	
553-50232	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST18-6WH</b>	
553-50233	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST18-6WH-S</b>	
553-50234	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST9-3WH</b>	
553-50236	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST24-8WH</b>	
553-50237	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST4.8-1YE-3S</b>	
553-50239	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST18-6YE</b>	
553-50240	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST18-6YE-S</b>	
553-50241	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST6-2WH-S</b>	
553-50242	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST12-4WH-S</b>	
553-50250	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>HST9-3WH-2S</b>	
553-50251	SAE-AMS-DTL-23053/5 Class 1 and 3, MIL-STD-202G Method 215K, SAE-AS81531
<b>TIPTAGVA10X65YEW</b>	
556-26006	MIL-STD-202G Method 215K, SAE-AS81531
<b>TIPTAGVA10X90YEW</b>	
556-26007	MIL-STD-202G Method 215K, SAE-AS81531
<b>TIPTAGVA15X65YEW</b>	
556-26008	MIL-STD-202G Method 215K, SAE-AS81531
<b>TIPTAGVA15X90YEW</b>	
556-26009	MIL-STD-202G Method 215K, SAE-AS81531
<b>PW.25W1P</b>	
596-96255	MIL-STD-202, MIL-STD-810G
<b>PW.50W2P</b>	
596-96256	MIL-STD-202, MIL-STD-810G

Part No.	US MILSPEC
<b>PW.75W2P</b>	
596-96258	MIL-STD-202, MIL-STD-810G
<b>PW.50W1P</b>	
596-96261	MIL-STD-202, MIL-STD-810G
<b>PW.75W1P</b>	
596-96263	MIL-STD-202, MIL-STD-810G

### Application Tools US Military Standards

Part No.	US MILSPEC
<b>EVO7</b>	
110-70083	MS90387-1, SAE-AS90387
<b>T18RA50</b>	
T18RA50	MS3367-4-9, SAE-AS33671
<b>T18RA5000</b>	
T18RA5000	MS3367-4-9, SAE-AS33671
<b>T30RA</b>	
T30RA30	MS3367-5-9, SAE-AS33671
T30RA3000	

### Electrical insulation US Military Standards

Part No.	US MILSPEC
<b>ET33</b>	
ET330	MIL-1-7798-A
<b>ET66</b>	
ET660	MIL-1-7798-A
<b>ETCW66</b>	
ETCW660	MIL-1-24391-A
<b>ETST66</b>	
ETST6610	MIL-1-7798-A
ETST662	
ETST663	
ETST664	
ETST665	
ETST666	
ETST668	

### Standards for HellermannTyton Bundling and Securing

Material	Color (short)	Specifications	File#	Material	Color (short)	Specifications	File#			
<b>CTAM1</b>				<b>CTQM5</b>						
PA66	BK	UL	E64139	PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E65344			
	WH	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B								
<b>CTAM2</b>				<b>CTT20R</b>						
PA66	BK	UL	E64139	PA66	BK	UL	E64139			
	WH	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B								
		UL								
PA66HS	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B								
	<b>CTAP1</b>				<b>CTT60R</b>					
PA66	BK	UL	E64139	PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139			
	WH	UL-ZODZ2.E64139								
<b>CTAP2</b>				<b>GT.50X11</b>						
PA66	WH	UL-ZODZ2.E64139	E64139	PA66, PE	BK		E64139			
<b>CTM0</b>					PA66HIRHSUV			NA	UL	
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139		PA66HS			BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
		UL-ZODZ2.E64139								
	WH	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B								
		UL-ZODZ2.E64139								
<b>CTM1</b>				<b>GT.50X12</b>						
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139	PA6, PP	MN		E64139			
		UL 62275								
	WH	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B								
<b>CTM2</b>				<b>GT.50X6</b>						
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139	PA, PP	MN		E64139			
		UL 62275								
	WH	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B								
		UL 62275								
<b>CTM3</b>				<b>GT.50X8</b>						
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139	PA6, PP	MN		E64139			
		UL 62275								
	WH	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B								
		UL 62275								
<b>CTM4</b>										
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139	PA66, PE	BK		E64139			
		UL 62275								
	WH	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B								
		UL 62275								

# Appendix

## Product Approvals and Specifications

### Standards for HellermannTyton Bundling and Securing

Material	Color (short)	Specifications	File#	Material	Color (short)	Specifications	File#	
<b>GT.75X15</b>				<b>IT50R</b>				
PA66, PE	BK		E64139	PA66	BK	UL	E64139	
	BU				ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, CAGE Code 53421			
	GN					CAGE Code 53421, UL-ZODZ2.E64139		
	OG							
	RD				UL			
YE	CAGE Code 53421, UL-ZODZ2.E64139							
<b>GT.75X180</b>				<b>IT50RD</b>				
PA66, PE	BK		E64139	PA66	BK	UL	E64139	
	BU				ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, CAGE Code 53421			
	GN					CAGE Code 53421, UL-ZODZ2.E64139		
	OG							
	RD			UL				
	WH							
YE								
<b>GT.75X180W</b>				<b>IT50RT</b>				
PA66, PE	BK		E64139	PA66	BK	UL	E64139	
<b>H6P</b>					ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, CAGE Code 53421			
PA66	NA	NF EN 45545-2				YE		CAGE Code 53421, UL-ZODZ2.E64139
<b>IT18FL</b>				<b>KR6/35</b>				
PA66	BK	UL	E64139	PA66UV	BK	IEC 62275:2006		
	BU			ANSI/UL 62275, CAN/CSA-C22.2 no. 62275	<b>KR8/21</b>			
	NA	UL			PA66	NA	IEC 62275:2006, NF EN 45545-2	
	OG				UL	PA66UV	BK	IEC 62275:2006
	RD	<b>KR8/33</b>						
	WH			PA66UV		BK	IEC 62275:2006	
YE			<b>MB1</b>					
<b>IT18R</b>				PA66	BK	UL		
PA66	BK	UL	E64139	<b>MB2.5</b>				
	BU	CAGE Code 53421, UL-ZODZ2.E64139		PA66	BK		E64139	
	GY			WH				
	NA				<b>MB3</b>			
	OG			UL	PA66	BK	UL	E64139
	RD	WH						
	WH					<b>MB4</b>		
YE	CAGE Code 53421, UL-ZODZ2.E64139		PA66	BK	UL	E64139		
<b>IT50L</b>				<b>MB4SH</b>				
PA66	BK	CAGE Code 53421, UL-ZODZ2.E64139	E64139	PA66	WH	UL	E64139	
	BU	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, CAGE Code 53421		<b>MB5</b>				
	NA			UL	PA66	BK	UL	E64139
	OG	CAGE Code 53421, UL-ZODZ2.E64139				WH	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	
YE			UL					

## Standards for HellermannTyton Bundling and Securing

Material	Color (short)	Specifications	File#	Material	Color (short)	Specifications	File#
<b>MBT14H</b>				<b>PBM</b>			
SS316	ML	IEC 60092, IEC 62275:2006		PA66	BK	UL	E64139
<b>MBT14S</b>					NA		
SS316	ML	IEC 62275:2006			WH		
<b>MBT14XH</b>				<b>PT220</b>			
SS316	ML	IEC 60092, IEC 62275:2006		PEEK	BGE	DIN EN 62275:2016-01, EN 62275:2009	
<b>MBT20H</b>				<b>PT2A</b>			
SS316	ML	IEC 60092, IEC 62275:2006		PEEK	BGE	DIN EN 62275:2010-07, EN 62275:2009	
<b>MBT20S</b>				<b>Q120I</b>			
SS316	ML	IEC 60092, IEC 62275:2006		PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E65344
<b>MBT20XH</b>					NA		
SS316	ML	IEC 60092		PA66HS	BK		
<b>MBT27H</b>					NA		
SS316	ML	IEC 60092, IEC 62275:2006		<b>Q120M</b>			
<b>MBT27S</b>				PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E65344
SS316	ML	IEC 60092, IEC 62275:2006			NA		
<b>MBT27XH</b>				PA66HS	BK		
SS316	ML	IEC 60092			NA		
<b>MBT33H</b>				<b>Q120R</b>			
SS316	ML	IEC 60092, IEC 62275:2006		PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E65344
<b>MBT33S</b>					NA		
SS316	ML	IEC 60092, IEC 62275:2006		PA66HS	BK		
<b>MBT33XH</b>					NA		
SS316	ML	IEC 60092		<b>Q18I</b>			
<b>MBT55</b>				PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E65344
SS316	ML	IEC 60092, IEC 62275:2006			NA		
<b>MBT8H</b>				PA66HS	BK		
SS316	ML	IEC 62275:2006			NA		
<b>MBT8S</b>				<b>Q18L</b>			
SS316	ML	IEC 60092, IEC 62275:2006		PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E65344
<b>MP3M3</b>					NA		
PA66	NA	NF EN 45545-2		PA66HS	BK		
<b>MP4M3</b>					NA		
PA66	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64963	<b>Q18R</b>			
<b>MSC2</b>				PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E65344
SS304	ML		E64139		NA		
<b>MSC2LP</b>				PA66HS	BK		
SS304	ML		E64139		NA		
<b>MSC90</b>				<b>Q30L</b>			
SS304	ML		E64139	PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E65344
<b>MSMP6/10</b>					NA		
PA66	NA		E64139	PA66HS	BK		
<b>MSMP6/6</b>					NA		
PA66	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139				

# Appendix

## Product Approvals and Specifications

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Material	Color (short)	Specifications	File#	Material	Color (short)	Specifications	File#		
<b>Q30R</b>				<b>RCA180LM12</b>					
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E65344	PA66HIRHSUV, ST, ZN	BK		E64139		
	NA			<b>RCA180LM12SS</b>					
PA66HS	BK			PA66HIRHSUV, SS304	BK		E64139		
	NA			<b>RCA180LM6</b>					
<b>Q50I</b>				<b>RCA180LM6SS</b>					
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E65344	PA66HIRHSUV, ST, ZN	BK		E64139		
	NA			<b>RCA180LM6SS</b>					
PA66HS	BK			PA66HIRHSUV, SS304	BK		E64139		
	NA			<b>RCA180LM8</b>					
<b>Q50L</b>				<b>RCA180LM8SS</b>					
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E65344	PA66HIRHSUV, ST, ZN	BK		E64139		
	NA			<b>RCA180MM10</b>					
PA66HS	BK			PA66HIRHSUV, SS304	BK		E64139		
	NA			<b>RCA180MM10SS</b>					
<b>Q50R</b>				<b>RCA180MM12</b>					
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E65344	PA66HIRHSUV, ST, ZN	BK		E64139		
	NA			<b>RCA180MM12SS</b>					
PA66HS	BK			PA66HIRHSUV, SS304	BK		E64139		
	NA			<b>RCA180MM6</b>					
<b>QM20</b>				<b>RCA180MM6SS</b>					
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E65344	PA66HIRHSUV, ST, ZN	BK		E64139		
	NA			<b>RCA180MM8</b>					
<b>RCA15SM10</b>				<b>RCA180MM8SS</b>					
PA66HIRHSUV, ST, ZN	BK				E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCA15SM10SS</b>				<b>RCA180SM10</b>					
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139		
<b>RCA15SM12</b>				<b>RCA180SM10SS</b>					
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, SS304	BK		E64139		
<b>RCA15SM12SS</b>				<b>RCA180SM12</b>					
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139		
<b>RCA15SM6</b>				<b>RCA180SM12SS</b>					
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, SS304	BK		E64139		
<b>RCA15SM6SS</b>				<b>RCA180SM6</b>					
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139		
<b>RCA15SM8</b>				<b>RCA180SM6SS</b>					
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, SS304	BK		E64139		
<b>RCA15SM8SS</b>				<b>RCA180SM10</b>					
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139		
<b>RCA180LM10</b>				<b>RCA180SM12</b>					
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139		
<b>RCA180LM10SS</b>				<b>RCA180SM12SS</b>					
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139		
<b>RCA180LM10</b>				<b>RCA180SM6</b>					
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139		
<b>RCA180LM10SS</b>				<b>RCA180SM6SS</b>					
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139		



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Material	Color (short)	Specifications	File#	Material	Color (short)	Specifications	File#
<b>RCA180SM8</b>				<b>RCA90LM12</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCA180SM8SS</b>				<b>RCA90LM12SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCA30LM10</b>				<b>RCA90LM6</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCA30LM10SS</b>				<b>RCA90LM6SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCA30LM12</b>				<b>RCA90LM8</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCA30LM12SS</b>				<b>RCA90LM8SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCA30LM6</b>				<b>RCA90SM10</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCA30LM6SS</b>				<b>RCA90SM10SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCA30LM8</b>				<b>RCA90SM12</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCA30LM8SS</b>				<b>RCA90SM12SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCA30SM10</b>				<b>RCA90SM6</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCA30SM10SS</b>				<b>RCA90SM6SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCA30SM12</b>				<b>RCA90SM8</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCA30SM12SS</b>				<b>RCA90SM8SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCA30SM6</b>				<b>RCB15SM10</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCA30SM6SS</b>				<b>RCB15SM10SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCA30SM8</b>				<b>RCB15SM12</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCA30SM8SS</b>				<b>RCB15SM12SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCA90LM10</b>				<b>RCB15SM6</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCA90LM10SS</b>				<b>RCB15SM6SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139

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## Product Approvals and Specifications

### Standards for HellermannTyton Bundling and Securing

Material	Color (short)	Specifications	File#	Material	Color (short)	Specifications	File#
<b>RCB155M8</b>				<b>RCB180SM12</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCB155M8SS</b>				<b>RCB180SM12SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCB180LM10</b>				<b>RCB180SM6</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCB180LM10SS</b>				<b>RCB180SM6SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCB180LM12</b>				<b>RCB180SM8</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCB180LM12SS</b>				<b>RCB180SM8SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCB180LM6</b>				<b>RCB30LM10</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCB180LM6SS</b>				<b>RCB30LM10SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCB180LM8</b>				<b>RCB30LM12</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCB180LM8SS</b>				<b>RCB30LM12SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCB180MM10</b>				<b>RCB30LM6</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCB180MM10SS</b>				<b>RCB30LM6SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCB180MM12</b>				<b>RCB30LM8</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCB180MM12SS</b>				<b>RCB30LM8SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCB180MM6</b>				<b>RCB30SM10</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCB180MM6SS</b>				<b>RCB30SM10SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCB180MM8</b>				<b>RCB30SM12</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCB180MM8SS</b>				<b>RCB30SM12SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCB180SM10</b>				<b>RCB30SM6</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCB180SM10SS</b>				<b>RCB30SM6SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139

## Standards for HellermannTyton Bundling and Securing

Material	Color (short)	Specifications	File#	Material	Color (short)	Specifications	File#
<b>RCB30SM8</b>				<b>RCC15SM12</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCB30SM8SS</b>				<b>RCC15SM12SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCB90LM10</b>				<b>RCC15SM6</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCB90LM10SS</b>				<b>RCC15SM6SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCB90LM12</b>				<b>RCC15SM8</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCB90LM12SS</b>				<b>RCC15SM8SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCB90LM6</b>				<b>RCC180LM10</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCB90LM6SS</b>				<b>RCC180LM10SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCB90LM8</b>				<b>RCC180LM12</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCB90LM8SS</b>				<b>RCC180LM12SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCB90SM10</b>				<b>RCC180LM6</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCB90SM10SS</b>				<b>RCC180LM6SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCB90SM12</b>				<b>RCC180LM8</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCB90SM12SS</b>				<b>RCC180LM8SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCB90SM6</b>				<b>RCC180MM10</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCB90SM6SS</b>				<b>RCC180MM10SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCB90SM8</b>				<b>RCC180MM12</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCB90SM8SS</b>				<b>RCC180MM12SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCC15SM10</b>				<b>RCC180MM6</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCC15SM10SS</b>				<b>RCC180MM6SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139

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Material	Specifications	File#
<b>1FRP</b>		
PE-FR		E147924
<b>1N</b>		
PA6		E147924
<b>1NFP</b>		
PE		E147924
<b>1P</b>		
PTFE		E147924
<b>2.5FRP</b>		
PE-FR		E147924
<b>2.5N</b>		
PA6		E147924
<b>2.5NFP</b>		
PE		E147924
<b>2.5P</b>		
PTFE		E147924
<b>2FRP</b>		
PE-FR		E147924
<b>2N</b>		
PA6		E147924
<b>2NFP</b>		
PE		E147924
<b>2P</b>		
PTFE		E147924
<b>3FRP</b>		
PE-FR		E147924
<b>3N</b>		
PA6		E147924
<b>3NFP</b>		
PE		E147924
<b>3P</b>		
PTFE		E147924
<b>4FRP</b>		
PE-FR		E147924
<b>4N</b>		
PA6		E147924
<b>4NFP</b>		
PE		E147924
<b>4P</b>		
PTFE		E147924
<b>5FRP</b>		
PE-FR		E147924
<b>5N</b>		
PA6		E147924
<b>5NFP</b>		
PE		E147924
<b>5P</b>		
PTFE		E147924
<b>BSHKLP1140B</b>		
PET		E147924

Material	Specifications	File#
<b>BSHKLP120B</b>		
PET		E147924
<b>BSHKLP200B</b>		
PET		E147924
<b>BSHKLP212B</b>		
PET		E147924
<b>BSHKLP340B</b>		
PET		E147924
<b>BSHKLPR1140B</b>		
PET	MIL-STD 202, UL	E147924
<b>BSHKLPR120B</b>		
PET	MIL-STD 202, UL	E147924
<b>BSHKLPR200B</b>		
PET	MIL-STD 202, UL	E147924
<b>BSHKLPR212B</b>		
PET	MIL-STD 202, UL	E147924
<b>BSHKLPR340B</b>		
PET	MIL-STD 202, UL	E147924
<b>BSHTFG100</b>		
GF		E147924
<b>BSHTFG100B</b>		
GF		E147924
<b>BSHTFG120</b>		
GF		E147924
<b>BSHTFG120B</b>		
GF		E147924
<b>BSHTFG140</b>		
GF		E147924
<b>BSHTFG140B</b>		
GF		E147924
<b>BSHTFG340</b>		
GF		E147924
<b>BSHTFG340B</b>		
GF		E147924
<b>BSP100</b>		
PET		E147924
<b>BSP100B</b>		
PET		E147924
<b>BSP103B</b>		
PET		E147924
<b>BSP1120</b>		
PET		E147924
<b>BSP1123B</b>		
PET		E147924
<b>BSP1140</b>		
PET		E147924
<b>BSP1140B</b>		
PET		E147924
<b>BSP1143B</b>		
PET		E147924

## Standards for HellermannTyton Bundling and Securing

Material	Color (short)	Specifications	File#	Material	Color (short)	Specifications	File#
<b>RCC180MM8</b>				<b>RCC305M12</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCC180MM8SS</b>				<b>RCC305M12SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCC180SM10</b>				<b>RCC305M6</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCC180SM10SS</b>				<b>RCC305M6SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCC180SM12</b>				<b>RCC305M8</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCC180SM12SS</b>				<b>RCC305M8SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCC180SM6</b>				<b>RCC90LM10</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCC180SM6SS</b>				<b>RCC90LM10SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCC180SM8</b>				<b>RCC90LM12</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCC180SM8SS</b>				<b>RCC90LM12SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCC30LM10</b>				<b>RCC90LM6</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCC30LM10SS</b>				<b>RCC90LM6SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCC30LM12</b>				<b>RCC90LM8</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCC30LM12SS</b>				<b>RCC90LM8SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCC30LM6</b>				<b>RCC90SM10</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCC30LM6SS</b>				<b>RCC90SM10SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCC30LM8</b>				<b>RCC90SM12</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCC30LM8SS</b>				<b>RCC90SM12SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCC30SM10</b>				<b>RCC90SM6</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCC30SM10SS</b>				<b>RCC90SM6SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139

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Material	Color (short)	Specifications	File#	Material	Color (short)	Specifications	File#
<b>RCC90SM8</b>				<b>RCD180MM12</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCC90SM8SS</b>				<b>RCD180MM12SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCD15SM10</b>				<b>RCD180MM6</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCD15SM10SS</b>				<b>RCD180MM6SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCD15SM12</b>				<b>RCD180MM8</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCD15SM12SS</b>				<b>RCD180MM8SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCD15SM6</b>				<b>RCD180SM10</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCD15SM6SS</b>				<b>RCD180SM10SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCD15SM8</b>				<b>RCD180SM12</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCD15SM8SS</b>				<b>RCD180SM12SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCD180LM10</b>				<b>RCD180SM6</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCD180LM10SS</b>				<b>RCD180SM6SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCD180LM12</b>				<b>RCD180SM8</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCD180LM12SS</b>				<b>RCD180SM8SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCD180LM6</b>				<b>RCD30LM10</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCD180LM6SS</b>				<b>RCD30LM10SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCD180LM8</b>				<b>RCD30LM12</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCD180LM8SS</b>				<b>RCD30LM12SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCD180MM10</b>				<b>RCD30LM6</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCD180MM10SS</b>				<b>RCD30LM6SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139

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Material	Color (short)	Specifications	File#	Material	Color (short)	Specifications	File#
<b>RCD30LM8</b>				<b>RCD90SM12</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCD30LM8SS</b>				<b>RCD90SM12SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCD30SM10</b>				<b>RCD90SM6</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCD30SM10SS</b>				<b>RCD90SM6SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCD30SM12</b>				<b>RCD90SM8</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66HIRHSUV, ST, ZN	BK		E64139
<b>RCD30SM12SS</b>				<b>RCD90SM8SS</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66HIRHSUV, SS304	BK		E64139
<b>RCD30SM6</b>				<b>RCINSERTA</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	TPE	BK		E64139
<b>RCD30SM6SS</b>				<b>RCINSERTB</b>			
PA66HIRHSUV, SS304	BK		E64139	TPE	BK		E64139
<b>RCD30SM8</b>				<b>RCINSERTC</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	TPE	BK		E64139
<b>RCD30SM8SS</b>				<b>RCINSERTD</b>			
PA66HIRHSUV, SS304	BK		E64139	TPE	BK		E64139
<b>RCD90LM10</b>				<b>RF140</b>			
PA66HIRHSUV, ST, ZN	BK		E64139	PA66	BK	ANSI/UL 1565, ANSI/UL 62275	E64962
<b>RCD90LM10SS</b>				<b>RT250I</b>			
PA66HIRHSUV, SS304	BK		E64139	PA66	BK	UL-ZODZ2.E64139	E64139
					NA		
<b>RCD90LM12</b>				PA66UV	BK	UL	
PA66HIRHSUV, ST, ZN	BK		E64139	<b>RT250L</b>			
<b>RCD90LM12SS</b>				PA66	BK	UL-ZODZ2.E64139	E64139
PA66HIRHSUV, SS304	BK		E64139		NA		
<b>RCD90LM6</b>				PA66UV	BK	UL	
PA66HIRHSUV, ST, ZN	BK		E64139	<b>RT250M</b>			
<b>RCD90LM6SS</b>				PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, IEC 60092 series	E64139
PA66HIRHSUV, SS304	BK		E64139		NA		
<b>RCD90LM8</b>				PA66UV	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	
PA66HIRHSUV, ST, ZN	BK		E64139	<b>RT250R</b>			
<b>RCD90LM8SS</b>				PA66	BK	UL-ZODZ2.E64139	E64139
PA66HIRHSUV, SS304	BK		E64139		NA		
<b>RCD90SM10</b>				PA66UV	BK	UL	
PA66HIRHSUV, ST, ZN	BK		E64139	<b>RT250S</b>			
<b>RCD90SM10SS</b>				PA66	BK	UL	E64139
PA66HIRHSUV, SS304	BK		E64139		NA	UL-ZODZ2.E64139	
				PA66UV	BK	UL	

# Appendix

## Product Approvals and Specifications

### Standards for HellermannTyton Bundling and Securing

Material	Color (short)	Specifications	File#
<b>RT250XL</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
	NA		
PA66UV	BK	UL	
<b>RT255R</b>			
PA66HIRHSUV	BK	UL-ZODZ2.E64139	E64139
<b>RT255S</b>			
PA66HIRHSUV	BK	UL-ZODZ2.E64139	E64139
<b>RT40R</b>			
PA66	BK	UL-ZODZ2.E64139	E64139
	NA		
<b>RT50LL</b>			
PA66	BK	UL-ZODZ2.E64139	E64139
	NA		
<b>RT50S</b>			
PA66	BK	UL-ZODZ2.E64139	E64139
	NA		
<b>T120I</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
	NA		
PA66HIRHSUV	BK	UL-ZODZ2.E64139	E64139
PA66HS			
PA66UV			
<b>T120L</b>			
PA66	BK	UL-ZODZ2.E64139	E64139
	NA	CAGE Code 53421, UL-ZODZ.E64139	
PA66HS	BK	UL-ZODZ2.E64139, VG U48/04103	E64139
PA66UV		CAGE Code 53421, CAN/CSA-C22.2 no. 62275, VG 95387 Part 4 Edition: 2008-12	
<b>T120MR</b>			
PA66	BK	ANSI/UL 62275	E64139
	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	
<b>T120R</b>			
E/TFE	BU	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E193818
PA66	BK	UL-ZODZ2.E64139	E64139
	NA	BACS38K, CAGE Code 53421, UL-ZODZ.E64139	
		CAGE Code 53421, UL-ZODZ.E64139	
<b>T120R(U)</b>			
PA66	BK	UL-ZODZ2.E64139	E64139
	NA		
PA66UV	BK	UL-ZODZ2.E64139	
<b>T120RDH</b>			
PA66	BK	UL-ZODZ2.E64139	E64139
<b>T120S</b>			
PA66	BK	UL-ZODZ2.E64139	E64139
	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, CAN/CSA-C22.2 no. 18.5, CAN/CSA-C22.2 no. 62275	
		UL-ZODZ2.E64139	
PA66HIRHSUV	BK	UL-ZODZ2.E64139	E64139
PA66HS			
PA66UV			E64139
<b>T150L</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
	NA		
PA66UV	BK		
<b>T150LL</b>			
PA66	BK	UL-ZODZ2.E64139	E64139
	NA		
PA66UV	BK		
<b>T150M</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
	NA		
PA66HS	BK		
PA66UV			
<b>T150R(U)</b>			
PA66	BK	UL-ZODZ2.E64139	E64139
	NA		
PA66UV	BK	UL-ZODZ2.E64139	
<b>T150XL</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
	NA		
PA66HS	BK		
PA66UV			
<b>T150XLL</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
	NA		
PA66UV	BK		



## Standards for HellermannTyton Bundling and Securing

Material	Color (short)	Specifications	File#	Material	Color (short)	Specifications	File#		
<b>T18I</b>				<b>T18R</b>					
PA66	BK	UL-ZODZ2.E64139	E64139	PA66HS	BK	UL-ZODZ2.E64139	E64139		
	NA	IEC 62275:2006							
PA66HS	BK	UL-ZODZ2.E64139							
PA66V0	NA								
<b>T18L</b>				<b>T18RWPM</b>					
PA66	BK	UL-ZODZ2.E64139	E64139	PA66	NA	UL	E64139		
	NA			UL-ZODZ2.E64139					
PA66HS	BK			ANSI/UL 62275, CAN/CSA-C22.2 no. 62275					
PA66V0	NA			UL-ZODZ2.E64139					
<b>T18MR</b>				<b>T18S</b>					
PA66	BK	UL	E64139	PA66	BK	IEC 62275:2006	E64139		
	NA				ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B				
PA66HS	BK			IEC 62275:2006, UL-ZODZ2.E64139, VG U48/04103					
<b>T18R</b>				<b>T250I</b>					
E/TFE	BU	ANSI/UL 1565, ANSI/UL 62275, IEC 62275:2006	E64962	PA66	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139		
PA66	BK	CAGE Code 53421, UL-ZODZ.E64139	E64139	<b>T250L</b>					
	BN			CAGE Code 53421	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139		
	BU	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E85319	NA		UL-ZODZ2.E64139			
		CAGE Code 53421, UL-ZODZ.E64139			E64139				
	GN	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, IEC 62275:2006	E85319	<b>T250M</b>					
		CAGE Code 53421, UL-ZODZ.E64139		E64139	PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139	
	GY	UL-ZODZ2.E85319	PA66HIRHSUV		BK	UL-ZODZ2.E64139			
	NA	CAGE Code 53421, UL-ZODZ.E64139	E64139	PA66UV		UL-ZODZ2.E64139			
	OG			ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, IEC 62275:2006	E85319	<b>T250R</b>			
	PE					UL-ZODZ2.E64139	BK	UL-ZODZ2.E64139	E64139
	RD	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, IEC 62275:2006	E85319	PA66	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B		E64139	
		WH		UL-ZODZ2.E64139	PA66HIRHSUV	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B		
	YE	CAGE Code 53421, UL-ZODZ.E64139	E64139	<b>T250S</b>					
ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, IEC 62275:2006		E85319		PA66	BK	UL-ZODZ2.E64139	E64139		
<b>T250XL</b>				NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B				
<b>T255M</b>				PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139		
<b>T255R</b>				PA66HIRHSUV	BK	UL-ZODZ2.E64139	E64139		
<b>T255S</b>				<b>T255S</b>					
<b>T255S</b>				PA66HIRHSUV	BK	UL-ZODZ2.E64139	E64139		
<b>T255S</b>				<b>T255S</b>					
<b>T255S</b>				PA66HIRHSUV	BK		E64139		

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### Standards for HellermannTyton Bundling and Securing

Material	Color (short)	Specifications	File#	Material	Color (short)	Specifications	File#		
<b>T30L</b>				<b>T30XL</b>					
PA66	BK	UL-ZODZ2.E64139	E64139	PA66	BK	2011/65/EU article 4, 2014/35/EU, UL-ZODZ2.E64139	E64139		
	NA				NA				
PA66UV	BK			<b>T40I</b>					
<b>T30LL</b>				PA66	BK	2011/65/EU article 4, 2014/35/EU, UL-ZODZ2.E64139	E64139		
PA66	BK	2011/65/EU article 4, 2014/35/EU, UL-ZODZ2.E64139	E64139		NA				
	PA66HS			BK	UL-ZODZ2.E64139		<b>T40L</b>		
<b>T30MR</b>				PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B UL-ZODZ2.E64139	E64139		
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B UL	E64139		NA				
	PA66HS			BK	UL-ZODZ2.E64139		<b>T40R(U)</b>		
<b>T30R</b>				PA66	BK	UL-ZODZ2.E64139	E64139		
E/TFE	BU	ANSI/UL 1565, ANSI/UL 62275	E64962		NA				
PA66	BK	CAGE Code 53421, UL-ZODZ.E64139	E64139	PA66HIRHSUV	BK	UL-ZODZ2.E64139, VG U48/04103	E64139		
	BN								
	BU								
	GN								
	GY								
	NA	CAGE Code 53421, IEC 62275:2006, VG 95387 Part 4 Edition: 2008-12	E64139	PA66HS	BK	BACS38K, CAGE Code 53421, UL-ZODZ2.E64139, VG 95387 Part 4 Edition: 2008-12	E64139		
	OG	CAGE Code 53421, UL-ZODZ.E64139							
	PE								
	RD			PA66UV	BK	CAGE Code 53421, UL-ZODZ2.E64139, VG 95387 Part 4 Edition: 2008-12	E64139		
	WH	UL-ZODZ2.E64139							
YE	CAGE Code 53421, UL-ZODZ.E64139	E64139	PA66V0	NA	UL-ZODZ2.E64139				
PA66HIRHSUV	BK		UL-ZODZ2.E64139	<b>T50IDH</b>					
PA66HS				CAGE Code 53421, VG 95387 Part 4 Edition: 2008-12	E64139	PA66	BK	UL-ZODZ2.E64139	E64139
PA66UV							NA		
PA66V0		UL-ZODZ2.E64139				PA66HS	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
<b>T30RSF(U)</b>									
PA66	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, CAN/CSA-C22.2 no. 18.5, CAN/CSA-C22.2 no. 62275	E64139	PA66UV	BK				
		UL-ZODZ2.E64139							
PA66HS	BK	UL-ZODZ2.E64139							

## Standards for HellermannTyton Bundling and Securing

Material	Color (short)	Specifications	File#	Material	Color (short)	Specifications	File#	
<b>T50L</b>				<b>T50R</b>				
E/TFE	BU	ANSI/UL 1565, ANSI/UL 62275	E64962	PA66	BK	CAGE Code 53421, UL-ZODZ.E64139	E64139	
PA66	BK	UL-ZODZ2.E64139	E64139		BN			
	BN	CAGE Code 53421, UL-ZODZ.E64139			BU			
	BU				GN			
	GN				GY			
	GY				NA	BACS38K, CAGE Code 53421, VG 95387 Part 4 Edition: 2008-12		
	OG	CAGE Code 53421, UL-ZODZ.E64139			OG	CAGE Code 53421, UL-ZODZ.E64139	E64139	
	RD	UL-ZODZ2.E64139			PE	CAGE Code 53421, UL-ZODZ.E64139		
	WH				RD			
YE	CAGE Code 53421, UL-ZODZ.E64139	WH	UL-ZODZ2.E64139					
PA66HIRHSUV	BK	UL-ZODZ2.E64139, VG 95387 Part 4 Edition: 2008-12	PA66HIRHSUV		YE	CAGE Code 53421, UL-ZODZ.E64139	E64139	
PA66HS			PA66HS		UL-ZODZ2.E64139			
PA66UV			BACS38K, CAGE Code 53421, UL-ZODZ2.E64139, VG 95387 Part 4 Edition: 2008-12		PA66UV	BK		BACS38K, CAGE Code 53421, UL-ZODZ2.E64139
			CAGE Code 53421, UL-ZODZ2.E64139, VG 95387 Part 4 Edition: 2008-12	CAGE Code 53421, UL-ZODZ2.E64139, VG 95387 Part 4 Edition: 2008-12				
<b>T50LDH</b>				<b>T50RDH</b>				
PA66	BK	UL-ZODZ2.E64139	E64139	PA66	BK	UL	E64139	
	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B		PA66HS	NA			
PA66HS	BK	UL-ZODZ2.E64139	PA66UV	BK	UL			
<b>T50ML</b>				<b>T50ROS</b>				
PA66	BK	UL	E64139	PA66HS	BK	DIN EN 45545-2		
	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B		<b>T50RSF(U)</b>	PA66	NA	UL-ZODZ2.E64139	E64139
		UL-ZODZ2.E64139		PA66HS	BK			
PA66HS	BK		<b>T50S</b>	PA66	BK	2011/65/EU article 4, 2014/35/EU, UL-ZODZ2.E64139	E64139	
<b>T50MR</b>				PA66	NA			
PA66	BK	UL-ZODZ2.E64139	E64139	<b>T50SDH</b>				
	NA			PA66	BK	E64139		
<b>T50R</b>				PA66	NA			
E/TFE	BU	ANSI/UL 1565, ANSI/UL 62275	E64962	<b>T50SSF</b>				
				PA66	NA	E64139		
				PA66HS	BK			
				<b>TM1SF</b>				
				PA66	BK	DIN EN 45545-2	E64139	
					NA			
					WH			

# Appendix

## Product Approvals and Specifications

### Standards for HellermannTyton Routing Protection Insulation

Material	Specifications	File#
<b>BSP120</b>		
PET		E147924
<b>BSP120B</b>		
PET		E147924
<b>BSP123B</b>		
PET		E147924
<b>BSP140</b>		
PET		E147924
<b>BSP140B</b>		
PET		E147924
<b>BSP143B</b>		
PET		E147924
<b>BSP180</b>		
PET		E147924
<b>BSP180B</b>		
PET		E147924
<b>BSP200B</b>		
PET		E147924
<b>BSP340</b>		
PET		E147924
<b>BSP340B</b>		
PET		E147924
<b>BSP343B</b>		
PET		E147924
<b>BSPFR100B</b>		
PET	UL 94 VW-1	E147924
<b>BSPFR1120</b>		
PET	UL 94 VW-1	E147924
<b>BSPFR1120B</b>		
PET	UL 94 VW-1	E147924
<b>BSPFR1128</b>		
PET	UL 94 VW-1	E147924
<b>BSPFR1140</b>		
PET	UL 94 VW-1	E147924
<b>BSPFR1140B</b>		
PET	UL 94 VW-1	E147924
<b>BSPFR120</b>		
PET	UL 94 VW-1	E147924
<b>BSPFR120B</b>		
PET	UL 94 VW-1	E147924
<b>BSPFR128</b>		
PET	UL 94 VW-1	E147924
<b>BSPFR140</b>		
PET	UL 94 VW-1	E147924
<b>BSPFR140B</b>		
PET	UL 94 VW-1	E147924
<b>BSPFR148</b>		
PET	UL 94 VW-1	E147924
<b>BSPFR180B</b>		
PET	UL 94 VW-1	E147924

Material	Specifications	File#
<b>BSPFR188</b>		
PET	UL 94 VW-1	E147924
<b>BSPFR340</b>		
PET	UL 94 VW-1	E147924
<b>BSPFR340B</b>		
PET	UL 94 VW-1	E147924
<b>BSPFR348</b>		
PET	UL 94 VW-1	E147924
<b>BSPFR380</b>		
PET	UL 94 VW-1	E147924
<b>BSPSC100</b>		
PET		E147924
<b>BSPSC1120</b>		
PET		E147924
<b>BSPSC1140</b>		
PET		E147924
<b>BSPSC120</b>		
PET		E147924
<b>BSPSC140</b>		
PET		E147924
<b>BSPSC180</b>		
PET		E147924
<b>BSPSC340</b>		
PET		E147924
<b>BSPSW100</b>		
PET		E147924
<b>BSPSW100B</b>		
PET		E147924
<b>BSPSW100LB</b>		
PET		E147924
<b>BSPSW103B</b>		
PET		E147924
<b>BSPSW1120B</b>		
PET		E147924
<b>BSPSW1120LB</b>		
PET		E147924
<b>BSPSW1123B</b>		
PET		E147924
<b>BSPSW1140</b>		
PET		E147924
<b>BSPSW1140B</b>		
PET		E147924
<b>BSPSW1140LB</b>		
PET		E147924
<b>BSPSW1143B</b>		
PET		E147924
<b>BSPSW120</b>		
PET		E147924
<b>BSPSW120B</b>		
PET		E147924

## Standards for HellermannTyton Routing Protection Insulation

Material	Specifications	File#
<b>BSPSW120LB</b>		
PET		E147924
<b>BSPSW123B</b>		
PET		E147924
<b>BSPSW140</b>		
PET		E147924
<b>BSPSW140B</b>		
PET		E147924
<b>BSPSW140LB</b>		
PET		E147924
<b>BSPSW143B</b>		
PET		E147924
<b>BSPSW180B</b>		
PET		E147924
<b>BSPSW180LB</b>		
PET		E147924
<b>BSPSW200B</b>		
PET		E147924
<b>BSPSW200LB</b>		
PET		E147924
<b>BSPSW203B</b>		
PET		E147924
<b>BSPSW340</b>		
PET		E147924
<b>BSPSW340B</b>		
PET		E147924
<b>BSPSW340LB</b>		
PET		E147924
<b>BSPSW343B</b>		
PET		E147924
<b>BSPSW380LB</b>		
PET		E147924
<b>BSSCFR100</b>		
PET		E147924
<b>BSSCFR100B</b>		
PET		E147924
<b>BSSCFR1120</b>		
PET		E147924
<b>BSSCFR1120B</b>		
PET		E147924
<b>BSSCFR1140</b>		
PET		E147924
<b>BSSCFR1140B</b>		
PET		E147924
<b>BSSCFR120</b>		
PET		E147924
<b>BSSCFR120B</b>		
PET		E147924
<b>BSSCFR140</b>		
PET		E147924

Material	Specifications	File#
<b>BSSCFR140B</b>		
PET		E147924
<b>BSSCFR180B</b>		
PET		E147924
<b>BSSCFR340</b>		
PET		E147924
<b>BSSCFR340B</b>		
PET		E147924
<b>BSSWFR100B</b>		
PET		E147924
<b>BSSWFR1120B</b>		
PET		E147924
<b>BSSWFR1140B</b>		
PET		E147924
<b>BSSWFR120B</b>		
PET		E147924
<b>BSSWFR140B</b>		
PET		E147924
<b>BSSWFR180B</b>		
PET		E147924
<b>BSSWFR200B</b>		
PET		E147924
<b>BSSWFR340B</b>		
PET		E147924
<b>BSSWV100B</b>		
PET		E147924
<b>BSSWV1120B</b>		
PET		E147924
<b>BSSWV120B</b>		
PET		E147924
<b>BSSWV340B</b>		
PET		E147924
<b>BSSWV380B</b>		
PET		E147924
<b>BSSWV580B</b>		
PET		E147924
<b>DV1</b>		
PVC	EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	
<b>DV1.5</b>		
PVC	EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	
<b>DV2</b>		
PVC	EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	
<b>DV3</b>		
PVC	EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	
<b>DV4</b>		
PVC	EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	

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Material	Specifications	File#
<b>G51NA</b>		
PA6	NASM21266	
<b>G51NB</b>		
PA6	NASM21266	
<b>G51NC</b>		
PA6	NASM21266	
<b>G51ND</b>		
PA6	NASM21266	
<b>G51NE</b>		
PA6	NASM21266	
<b>G51NF</b>		
PA6	NASM21266	
<b>G51NG</b>		
PA6	NASM21266	
<b>HEGPA6604</b>		
PA66	EN 45545-2:2013	
<b>HEGPA6606</b>		
PA66	EN 45545-2:2013	
<b>HEGPA6608</b>		
PA66	EN 45545-2:2013	
<b>HEGPA6610</b>		
PA66	EN 45545-2:2013	
<b>HEGPA6612</b>		
PA66	EN 45545-2:2013	
<b>HEGPA6620</b>		
PA66	EN 45545-2:2013	
<b>HEGPA6625</b>		
PA66	EN 45545-2:2013	
<b>HEGPA6630</b>		
PA66	EN 45545-2:2013	
<b>HEGPA6650</b>		
PA66	EN 45545-2:2013	
<b>HG038-45-0500</b>		
PA66		E229161
<b>HG038-90-0500</b>		
PA66		E229161
<b>HG038-HG038</b>		
PA66		E229161
<b>HG038-R050</b>		
PA66		E229161
<b>HG038-S-0380</b>		
PA66		E229161
<b>HG038-S-0500</b>		
PA66		E229161
<b>HG038-S-M16</b>		
PA66		E229161
<b>HG038-T</b>		
PA66		E229161
<b>HG050-45-0500</b>		
PA66		E229161

Material	Specifications	File#
<b>HG050-90-0500</b>		
PA66		E229161
<b>HG050-HG050</b>		
PA66		E229161
<b>HG050-R075</b>		
PA66		E229161
<b>HG050-S-0500</b>		
PA66		E229161
<b>HG050-T</b>		
PA66		E229161
<b>HG075-45-0750</b>		
PA66		E229161
<b>HG075-90-0750</b>		
PA66		E229161
<b>HG075-HG075</b>		
PA66		E229161
<b>HG075-R100</b>		
PA66		E229161
<b>HG075-S-0750</b>		
PA66		E229161
<b>HG075-T</b>		
PA66		E229161
<b>HG100-45-1000</b>		
PA66		E229161
<b>HG100-90-1000</b>		
PA66		E229161
<b>HG100-HG100</b>		
PA66		E229161
<b>HG100-S-1000</b>		
PA66		E229161
<b>HG100-T</b>		
PA66		E229161
<b>HG125-45-1500</b>		
PA66		E229161
<b>HG125-90-1250</b>		
PA66		E229161
<b>HG125-90-1500</b>		
PA66		E229161
<b>HG125-HG125</b>		
PA66		E229161
<b>HG125-S-1250</b>		
PA66		E229161
<b>HG125-S-1500</b>		
PA66		E229161
<b>HG125-T</b>		
PA66		E229161
<b>HG150-45-1500</b>		
PA66		E229161

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Material	Specifications	File#
<b>HG150-90-1500</b>		
PA66		E229161
<b>HG150-HG150</b>		
PA66		E229161
<b>HG150-S-1500</b>		
PA66		E229161
<b>HG150-S-2000</b>		
PA66		E229161
<b>HG200-90-2000</b>		
PA66		E229161
<b>HG200-S-2000</b>		
PA66		E229161
<b>HG-FR0380</b>		
PA6FR		E229161
<b>HG-FR0500</b>		
PA6FR		E229161
<b>HG-FR0750</b>		
PA6FR		E229161
<b>HG-FR1000</b>		
PA6FR		E229161
<b>HG-FR1250</b>		
PA6FR		E229161
<b>HG-FR1500</b>		
PA6FR		E229161
<b>HG-HI0310</b>		
PA12		E229161
<b>HG-HI0380</b>		
PA12		E229161
<b>HG-HI0500</b>		
PA12		E229161
<b>HG-HI0750</b>		
PA12		E229161
<b>HG-HI1000</b>		
PA12		E229161
<b>HG-HI1250</b>		
PA12		E229161
<b>HG-HI1500</b>		
PA12		E229161
<b>HG-HI2000</b>		
PA12		E229161
<b>HG-HISL0380</b>		
PA12		E229161
<b>HGL038-90-0500</b>		
PA66		E247502
<b>HGL038-S-0380</b>		
PA66		E229161
<b>HGL038-T</b>		
PA66		E247502
<b>HGL050-45-0500</b>		
PA66		E247502

Material	Specifications	File#
<b>HGL050-90-0500</b>		
PA66		E247502
<b>HGL050-S-0500</b>		
PA66		E246572
<b>HGL050-T</b>		
PA66		E247502
<b>HGL075-45-0750</b>		
PA66		E247502
<b>HGL075-90-0750</b>		
PA66		E247502
<b>HGL075-S-0750</b>		
PA66		E246572
<b>HGL075-T</b>		
PA66		E247502
<b>HGL075-Y050</b>		
PA66		E247502
<b>HGL100-45-1000</b>		
PA66		E247502
<b>HGL100-90-1000</b>		
PA66		E247502
<b>HGL100-S-1000</b>		
PA66		E246572
<b>HGL100-T</b>		
PA66		E247502
<b>HGL125-90-1250</b>		
PA66		E247502
<b>HGL125-S-1250</b>		
PA66		E246572
<b>HGL125-T</b>		
PA66		E247502
<b>HGL150-45-1500</b>		
PA66		E247502
<b>HGL150-90-1500</b>		
PA66		E247502
<b>HGL150-S-1500</b>		
PA66		E246572
<b>HGL200-S-2000</b>		
PA66		E246572
<b>HG-LW0250</b>		
PA6		E229161
<b>HG-LW0380</b>		
PA6		E229161
<b>HG-LW0500</b>		
PA6		E229161
<b>HG-LW0750</b>		
PA6		E229161
<b>HG-LW1000</b>		
PA6		E229161
<b>HG-LW1250</b>		
PA6		E229161

# Appendix

## Product Approvals and Specifications

### Standards for HellermannTyton Routing Protection Insulation

Material	Specifications	File#
<b>HG-LW1500</b>		
PA6		E229161
<b>HG-LW2000</b>		
PA6		E229161
<b>HG-SW0250</b>		
PA6		E229161
<b>HG-SW0258</b>		
PA6		E229161
<b>HG-SW0310</b>		
PA6		E229161
<b>HG-SW0318</b>		
PA6		E229161
<b>HG-SW0380</b>		
PA6		E229161
<b>HG-SW0388</b>		
PA6		E229161
<b>HG-SW0500</b>		
PA6		E246572
		E229161
<b>HG-SW0508</b>		
PA6		E229161
<b>HG-SW0750</b>		
PA6		E246572
		E229161
<b>HG-SW0758</b>		
PA6		E229161
<b>HG-SW1000</b>		
PA6		E246572
<b>HG-SW1008</b>		
PA6		E246572
<b>HG-SW1250</b>		
PA6		E246572
<b>HG-SW1258</b>		
PA6		E246572
<b>HG-SW1500</b>		
PA6		E246572
<b>HG-SW1508</b>		
PA6		E246572
<b>HG-SW2000</b>		
PA6		E246572
<b>HGU038-45-0500</b>		
PA66		E247502
<b>HGU038-90-0500</b>		
PA66		E247502
<b>HGU038-S-0500</b>		
PA66		E247502
<b>HGU050-45-0500</b>		
PA66		E247502
<b>HGU050-90-0500</b>		
PA66		E247502

Material	Specifications	File#
<b>HGU050-S-0500</b>		
PA66		E247502
<b>HGU075-45-0750</b>		
PA66		E247502
<b>HGU075-90-0750</b>		
PA66		E247502
<b>HGU075-S-0750</b>		
PA66		E247502
<b>HGU100-45-1000</b>		
PA66		E247502
<b>HGU100-90-1000</b>		
PA66		E247502
<b>HGU100-S-1000</b>		
PA66		E247502
<b>HGU125-45-1250</b>		
PA66		E247502
<b>HGU125-90-1250</b>		
PA66		E247502
<b>HGU125-90-1500</b>		
PA66		E247502
<b>HGU125-S-1250</b>		
PA66		E247502
<b>HGU125-S-1500</b>		
PA66		E247502
<b>HGU150-45-1500</b>		
PA66		E247502
<b>HGU150-90-1500</b>		
PA66		E247502
<b>HGU150-90-2000</b>		
PA66		E247502
<b>HGU150-S-1500</b>		
PA66		E247502
<b>HGU150-S-2000</b>		
PA66		E247502
<b>HGU16-45-M20B</b>		
PA66		E247502
<b>HGU16-90-M16B</b>		
PA66		E247502
<b>HGU16-90-M20B</b>		
PA66		E247502
<b>HGU16-S-M16B</b>		
PA66		E247502
<b>HGU16-S-M20B</b>		
PA66		E247502
<b>HGU21-45-M20B</b>		
PA66		E247502
<b>HGU21-90-M20B</b>		
PA66		E247502
<b>HGU21-S-M20B</b>		
PA66		E247502



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Material	Specifications	File#
<b>HGU28-45-M25B</b>		
PA66		E247502
<b>HGU28-90-M25B</b>		
PA66		E247502
<b>HGU28-S-M25B</b>		
PA66		E247502
<b>HGU34-45-M32B</b>		
PA66		E247502
<b>HGU34-90-M32B</b>		
PA66		E247502
<b>HGU34-S-M32B</b>		
PA66		E247502
<b>HGU34-S-M40B</b>		
PA66		E247502
<b>HGU42-90-M40B</b>		
PA66		E247502
<b>HGU42-90-M50B</b>		
PA66		E247502
<b>HGU42-S-M40B</b>		
PA66		E247502
<b>HGU42-S-M50B</b>		
PA66		E247502
<b>HIS-3-BAG 12/4 BK</b>		
PO-X	ANSI/UL 224, SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AMS - DTL-23053/5 Class 2	E143529
<b>HIS-3-BAG 12/4 CL</b>		
PO-X	ANSI/UL 224, SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AMS - DTL-23053/5 Class 2	
<b>HIS-3-BAG 3/1 BK</b>		
PO-X	ANSI/UL 224, SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AMS - DTL-23053/5 Class 2	E143529
<b>HIS-3-BAG 3/1 CL</b>		
PO-X	ANSI/UL 224, SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AMS - DTL-23053/5 Class 2	
<b>HIS-3-BAG 4.5/1.5 BK</b>		
PO-X	ANSI/UL 224, SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AMS - DTL-23053/5 Class 2	E143529
<b>HIS-3-BAG 4.5/1.5 CL</b>		
PO-X	ANSI/UL 224, SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AMS - DTL-23053/5 Class 2	
<b>HIS-3-BAG 6/2 BK</b>		
PO-X	ANSI/UL 224, SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AMS - DTL-23053/5 Class 2	E143529
<b>HIS-3-BAG 6/2 CL</b>		
PO-X	ANSI/UL 224, SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AMS - DTL-23053/5 Class 2	

Material	Specifications	File#
<b>HIS-3-BAG 9/3 BK</b>		
PO-X	ANSI/UL 224, SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AMS - DTL-23053/5 Class 2	E143529
<b>HIS-3-BAG 9/3 CL</b>		
PO-X	ANSI/UL 224, SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AMS - DTL-23053/5 Class 2	
<b>HWPV016</b>		
PA6V0	EN 45545-2:2013, UL 1441	E341700
<b>HWPV020</b>		
PA6V0	EN 45545-2:2013, UL 1441	E341700
<b>HWPV025</b>		
PA6V0	EN 45545-2:2013, UL 1441	E341700
<b>HWPV030</b>		
PA6V0	EN 45545-2:2013, UL 1441	E341700
<b>HWPV08</b>		
PA6V0	EN 45545-2:2013, UL 1441	E341700
<b>HWPP16</b>		
PP	ECE R 118-03 Abschnitt 6, 2017-06	
<b>HWPP20</b>		
PP	ECE R 118-03 Abschnitt 6, 2017-06	
<b>HWPP25</b>		
PP	ECE R 118-03 Abschnitt 6, 2017-06	
<b>HWPP30</b>		
PP	ECE R 118-03 Abschnitt 6, 2017-06	
<b>HWPP8</b>		
PP	ECE R 118-03 Abschnitt 6, 2017-06	
<b>MCR-B10</b>		
PVC		E192902
<b>MCR-B8</b>		
PVC		E192902
<b>MCR-BS</b>		
PVC		E192902
<b>MCR-BS10</b>		
PVC		E192902
<b>MCR-BS8</b>		
PVC		E192902
<b>MCR-C10</b>		
PVC		E192902
<b>MCR-C8</b>		
PVC		E192902
<b>MCR-CS</b>		
PVC		E211305
<b>MCR-EC</b>		
PVC		E211305

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Material	Specifications	File#
<b>MCR-EE</b>		
PVC		E211305
<b>MCR-ENT</b>		
PVC		E211305
<b>MCR-FE</b>		
PVC		E211305
<b>MCR-IE</b>		
PVC		E211305
<b>MCR-LTD</b>		
PVC		E211305
<b>MCR-OB</b>		
PVC		E211305
<b>MCR-OE</b>		
PVC		E211305
<b>MCR-PTF</b>		
PVC		E211305
<b>MCR-RDB</b>		
PVC		E211305
<b>MCR-REB</b>		
PVC		E211305
<b>MCR-TE</b>		
PVC		E211305
<b>MCR-TM</b>		
PVC		E211305
<b>MCR-WR</b>		
PVC		E211305
<b>PSR0380</b>		
PVC		E229161
<b>PSR038-45-0500</b>		
PA66		E229161
<b>PSR038-90-0500</b>		
PA66		E229161
<b>PSR038-S-0380</b>		
PA66		E229161
<b>PSR0500</b>		
PVC		E229161
<b>PSR050-45-0500</b>		
PA66		E229161
<b>PSR050-90-0500</b>		
PA66		E229161
<b>PSR050-S-0500</b>		
PA66		E229161
<b>PSR0750</b>		
PVC		E229161
<b>PSR075-45-0750</b>		
PA66		E229161
<b>PSR075-90-0750</b>		
PA66		E229161
<b>PSR075-S-0750</b>		
PA66		E229161

Material	Specifications	File#
<b>PSR1000</b>		
PVC		E229161
<b>PSR100-45-1000</b>		
PA66		E229161
<b>PSR100-90-1000</b>		
PA66		E229161
<b>PSR100-S-1000</b>		
PA66		E229161
<b>PSR1250</b>		
PVC		E229161
<b>PSR125-90-1250</b>		
PA66		E229161
<b>PSR125-S-1250</b>		
PA66		E229161
<b>PSR1500</b>		
PVC		E229161
<b>PSR150-S-1500</b>		
PA66		E229161
<b>PSR2000</b>		
PVC		E229161
<b>SD.5X.5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD.5X1</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD.75X.75</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD1.5X1</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD1.5X1.5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD1.5X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD1.5X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD1.5X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD1X1</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD1X1.5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD1X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139

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Material	Specifications	File#
<b>SD1X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD1X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD2.5X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD2X1</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD2X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD2X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD2X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD2X5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD3X1</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD3X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD3X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD3X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD3X5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD4X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD4X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD4X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD4X5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SD6X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139

Material	Specifications	File#
<b>SD8X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SDA.75X.75</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SDA1.5X1</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SDA1.5X1.5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SDA1.5X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SDA1.5X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SDA1.5X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SDA1X1</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SDA1X1.5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SDA1X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SDA1X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SDA1X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SDA2.5X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SDA2X1</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SDA2X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SDA2X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SDA2X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SDA2X5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SDA3X1</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139

### Standards for HellermannTyton Routing Protection Insulation

Material	Specifications	File#
<b>SDA3X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SDA3X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SDA3X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SDA3X5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SDA4X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SDA4X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SDA4X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SDA4X5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>ShrinkKit 321 Basic</b>		
PO-X	SAE - AMS - DTL-23053/5 Class 1	
<b>ShrinkKit 321 Universal Basic</b>		
PO-X	SAE - AMS - DTL-23053/5 Class 1	
<b>SL1.5X1</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SL1.5X1.5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SL1.5X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SL1.5X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SL1.5X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SL1x1</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SL1X1.5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SL1X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SL1X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139

Material	Specifications	File#
<b>SL1X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SL2.5X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SL2X1</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SL2X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SL2X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SL2X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SL2X5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SL3X1</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SL3X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SL3X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SL3X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SL3X5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SL4X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SL4X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SL4X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SL4X5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLA1.5X1</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLA1.5X1.5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLA1.5X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139

## Standards for HellermannTyton Routing Protection Insulation

Material	Specifications	File#
<b>SLA1.5X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLA1.5X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLA1X1</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLA1X1.5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLA1X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLA1X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLA1X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLA2.5X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLA2X1</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLA2X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLA2X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLA2X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLA2X5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLA3X1</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLA3X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLA3X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLA3X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLA3X5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139

Material	Specifications	File#
<b>SLA4X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLA4X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLA4X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLA4X5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHD1.5X1</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHD1.5X1.5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHD1.5X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHD1.5X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHD1.5X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHD1X1</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHD1X1.5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHD1X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHD1X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHD1X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHD2.5X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHD2X1</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHD2X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHD2X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139

# Appendix

## Product Approvals and Specifications

### Standards for HellermannTyton Routing Protection Insulation

Material	Specifications	File#
<b>SLHD2X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHD2X5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHD3X1</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHD3X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHD3X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHD3X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHD3X5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHD4X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHD4X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHD4X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHD4X5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHDA1.5X1</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHDA1.5X1.5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHDA1.5X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHDA1.5X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHDA1.5X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHDA1X1</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHDA1X1.5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139

Material	Specifications	File#
<b>SLHDA1X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHDA1X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHDA1X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHDA2.5X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHDA2X1</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHDA2X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHDA2X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHDA2X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHDA2X5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHDA3X1</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHDA3X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHDA3X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHDA3X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHDA3X5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHDA4X2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHDA4X3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHDA4X4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>SLHDA4X5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139

## Standards for HellermannTyton Routing Protection Insulation

Material	Specifications	File#
<b>TAN33-ST-12/4 BK</b>		
PO-X	CSA	E125182
<b>TAN33-ST-19/6 BK</b>		
PO-X	CSA	E125182
<b>TAN33-ST-24/8 BK</b>		
PO-X	CSA	E125182
<b>TAN33-ST-3/1 BK</b>		
PO-X	CSA	E125182
<b>TAN33-ST-4.8/1.5 BK</b>		
PO-X	CSA	E125182
<b>TAN33-ST-40/13 BK</b>		
PO-X	CSA	E125182
<b>TAN33-ST-6/2 BK</b>		
PO-X	CSA	E125182
<b>TAN33-ST-9/3 BK</b>		
PO-X	CSA	E125182
<b>TC.5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>TC.75</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>TC1</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>TC1.5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>TC2</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>TC2.5</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>TC3</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>TC4</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>TC6</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>TC8</b>		
PVC	CSA, EN 50085-1:2005 + A1:2013, EN 50085-2-3_1A, UL	E64139
<b>TCN20-1.6/0.8</b>		
PO-X	C22.2 no. 198.1-06, UL 224 125 °C 600V VW-1	E143529
<b>TCN20-12.7/6.4</b>		
PO-X	C22.2 no. 198.1-06, UL 224 125 °C 600V VW-1	E143529

Material	Specifications	File#
<b>TCN20-19.1/9.5</b>		
PO-X	C22.2 no. 198.1-06, UL 224 125 °C 600V VW-1	E143529
<b>TCN20-2.4/1.2</b>		
PO-X	C22.2 no. 198.1-06, UL 224 125 °C 600V VW-1	E143529
<b>TCN20-25.4/12.7</b>		
PO-X	C22.2 no. 198.1-06, UL 224 125 °C 600V VW-1	E143529
<b>TCN20-3.2/1.6</b>		
PO-X	C22.2 no. 198.1-06, UL 224 125 °C 600V VW-1	E143529
<b>TCN20-38.1/19.1</b>		
PO-X	C22.2 no. 198.1-06, UL 224 125 °C 600V VW-1	E143529
<b>TCN20-4.8/2.4</b>		
PO-X	C22.2 no. 198.1-06, UL 224 125 °C 600V VW-1	E143529
<b>TCN20-50.8/25.4</b>		
PO-X	C22.2 no. 198.1-06, UL 224 125 °C 600V VW-1	E143529
<b>TCN20-9.5/4.8</b>		
PO-X	C22.2 no. 198.1-06, UL 224 125 °C 600V VW-1	E143529
<b>TFN21 1.2/0.6</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21 1.6/0.8</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21 102.0/50.8</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21 12.7/6.4</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21 16.0/8.0</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21 19.1/9.5</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21 2.4/1.2</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21 25.4/12.7</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21 3.2/1.6</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21 31.8/16.0</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21 38.1/19.1</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21 4.8/2.4</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21 50.8/25.4</b>		
PO-X	ANSI/UL 224, CSA	E143529

### Standards for HellermannTyton Routing Protection Insulation

Material	Specifications	File#
<b>TFN21 6.4/3.2</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21 76.2/38.1</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21 9.5/4.8</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21-ST 1.6/0.8</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21-ST 102/50.8</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21-ST 12.7/6.4</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21-ST 19.1/9.5</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21-ST 2.4/1.2</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21-ST 25.4/12.7</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21-ST 3.2/1.6</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21-ST 31.8/16.0</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21-ST 38.1/19.1</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21-ST 4.8/2.4</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21-ST 50.8/25.4</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21-ST 6.4/3.2</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21-ST 76.2/38.1</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN21-ST 9.5/4.8</b>		
PO-X	ANSI/UL 224, CSA	E143529
<b>TFN31 12/4</b>		
PO-X	ANSI/UL 224, C22.2 no. 198.1-06	E143529
<b>TFN31 18/6</b>		
PO-X	ANSI/UL 224, C22.2 no. 198.1-06	E143529
<b>TFN31 24/8</b>		
PO-X	ANSI/UL 224, C22.2 no. 198.1-06	E143529
<b>TFN31 3/1</b>		
PO-X	ANSI/UL 224, C22.2 no. 198.1-06	E143529
<b>TFN31 39/13</b>		
PO-X	ANSI/UL 224, C22.2 no. 198.1-06	E143529
<b>TFN31 6/2</b>		
PO-X	ANSI/UL 224, C22.2 no. 198.1-06	E143529

Material	Specifications	File#
<b>TFN31 9/3</b>		
PO-X	ANSI/UL 224, C22.2 no. 198.1-06	E143529
<b>TFN31-ST-1.5/0.5</b>		
PO-X	ANSI/UL 224, C22.2 no. 198.1-06	E143529
<b>TFN31-ST-12/4</b>		
PO-X	ANSI/UL 224, C22.2 no. 198.1-06	E143529
<b>TFN31-ST-18/6</b>		
PO-X	ANSI/UL 224, C22.2 no. 198.1-06	E143529
<b>TFN31-ST-24/8</b>		
PO-X	ANSI/UL 224, C22.2 no. 198.1-06	E143529
<b>TFN31-ST-3/1</b>		
PO-X	ANSI/UL 224, C22.2 no. 198.1-06	E143529
<b>TFN31-ST-4.5/1.5</b>		
PO-X	ANSI/UL 224, C22.2 no. 198.1-06	E143529
<b>TFN31-ST-6/2</b>		
PO-X	ANSI/UL 224, C22.2 no. 198.1-06	E143529
<b>TFN31-ST-9/3</b>		
PO-X	ANSI/UL 224, C22.2 no. 198.1-06	E143529
<b>TSRP1-12</b>		
PVC		E211305
<b>TSRP1-14</b>		
PVC		E211305
<b>TSRP1-21-1</b>		
PVC		E211305
<b>TSRP1-25-1</b>		
PVC		E211305
<b>TSRP1-29-1</b>		
PVC		E211305
<b>TSRP1-33-1</b>		
PVC		E211305
<b>TSRP1-36</b>		
PVC		E211305
<b>TSRP1-50</b>		
PVC		E211305
<b>TSRP1-6A</b>		
PVC		E192902
<b>TSRP1-8A</b>		
PVC		E192902
<b>TSRP2-12</b>		
PVC		E211305
<b>TSRP2-14</b>		
PVC		E211305
<b>TSRP2-21-1</b>		
PVC		E211305



## Standards for HellermannTyton Routing Protection Insulation

Material	Specifications	File#
<b>TSRP2-25-1</b>		
PVC		E211305
<b>TSRP2-29-1</b>		
PVC		E211305
<b>TSRP2-33-1</b>		
PVC		E211305
<b>TSRP2-36</b>		
PVC		E211305
<b>TSRP2-50</b>		
PVC		E211305
<b>TSRP2-6A</b>		
PVC		E192902
<b>TSRP2-8A</b>		
PVC		E192902
<b>TSRP3-12</b>		
PVC		E211305
<b>TSRP3-14</b>		
PVC		E211305
<b>TSRP3-21-1</b>		
PVC		E211305
<b>TSRP3-25-1</b>		
PVC		E211305
<b>TSRP3-29-1</b>		
PVC		E211305
<b>TSRP3-33-1</b>		
PVC		E211305
<b>TSRP3-36</b>		
PVC		E211305
<b>TSRP3-50</b>		
PVC		E211305
<b>TSRP3-6A</b>		
PVC		E192902
<b>TSRP3-8A</b>		
PVC		E192902
<b>TSRPFW-RB</b>		
PVC		E211305
<b>TSRPI-RB</b>		
PVC		E211305
<b>TSRP-JB1</b>		
PVC		E211305
<b>TSRP-JB2</b>		
PVC		E211305
<b>TSRP-JB3</b>		
PVC		E211305
<b>TSRP-JBD</b>		
PVC		E211305
<b>TSRP-JBD2</b>		
PVC		E211305
<b>TSRPW-RB</b>		
PVC		E211305

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## Product Approvals and Specifications

### Standards for HellermannTyton Identification

Material	Color (short)	Specifications	File#
<b>120VOLT</b>			
443/552	OG	NEC2017, UL 969	MH11410
<b>120VOLT10</b>			
443/552	OG	NEC2017, UL 969	MH11410
<b>120VOLTM5</b>			
AA	OG	NEC2017	
<b>120VOLTS</b>			
443/552	OG	UL 969	MH11410
<b>175REF</b>			
100	WH		MH18396
<b>3X2CAUTION</b>			
PET	YE		MH16736
<b>3X2CAUTIONUV</b>			
PET	YE	ANSI Standard Z535.4, CSA 66956, IFC 2012, NEC2011, NEC2014, UL 969	MH16736
<b>3X2DANGER</b>			
PET	RD		MH16736
<b>3X2DANGERUV</b>			
PET	RD	ANSI Standard Z535.4, CSA 66956, IFC 2012, NEC2011, NEC2014, UL 969	MH16736
<b>3X2NOTICE</b>			
PET	BU		MH16736
<b>3X2SAFETY</b>			
PET	GN		MH16736
<b>3X2WARNING</b>			
PET	OG		MH16736
<b>3X2WARNINGUV</b>			
PET	OG	ANSI Standard Z535.4, CSA 66956, IFC 2012, NEC2011, NEC2014, UL 969	MH16736
<b>4X6CAUTION</b>			
PET	YE		MH16736
<b>4X6CAUTIONUV</b>			
PET	YE	ANSI Standard Z535.4, CSA 66956, IFC 2012, NEC2011, NEC2014, UL 969	MH16736
<b>4X6DANGER</b>			
PET	RD		MH16736
<b>4X6DANGERUV</b>			
PET	RD	ANSI Standard Z535.4, CSA 66956, IFC 2012, NEC2011, NEC2014, UL 969	MH16736
<b>4X6NOTICE</b>			
PET	BU		MH16736
<b>4X6SAFETY</b>			
PET	GN		MH16736
<b>4X6WARNING</b>			
PET	OG		MH16736

Material	Color (short)	Specifications	File#
<b>4X6WARNINGUV</b>			
PET	OG	ANSI Standard Z535.4, CSA 66956, IFC 2012, NEC2011, NEC2014, UL 969	MH16736
<b>514REF</b>			
100	WH		MH18396
<b>AC2011</b>			
840/926	RD	CSA 66956, IFC 2012, NEC2011, UL 969	MH16736
<b>AC2011-1</b>			
840/926	RD	UL 969	MH16736
<b>AC201110</b>			
840/926	RD	CSA 66956, NEC2017, UL 969	MH16736
<b>AC2011M5</b>			
AA	BK	NEC2014, NEC2017	
<b>AC2011M5ENG</b>			
AA	BK	NEC2014, NEC2017	
<b>AC2011S</b>			
840/926	RD	CSA 66956	MH16736
<b>ACCB</b>			
V	RD		MH11410
<b>ACCB10</b>			
443/552	RD	NEC2014	MH16736
<b>ACDISC-1</b>			
840/926	RD	UL 969	MH16736
<b>ACDISCS</b>			
840/926	RD	CSA 66956	MH16736
<b>ACDISCT</b>			
840/926	RD	CSA 66956, IFC 2012, NEC2011, UL 969	MH16736
<b>ACDISCT10</b>			
840/926	RD	CSA 66956, NEC2017, UL 969	MH16736
<b>ACDISCTM5</b>			
AA	BK	NEC2014, NEC2017	
<b>ACRATING</b>			
840/926	RD	CSA 66956, IFC 2012, NEC2011, UL 969	MH16736
<b>AF5X35D</b>			
840/926	RD		MH11410
<b>AF5X35W</b>			
840/926	OG		MH11410
<b>BIPOLARPV</b>			
443/552	OG	UL 969	MH11410
<b>BIPOLARPV10</b>			
443/552	OG	NEC2014	MH11410
<b>BIPOLARPVM5</b>			
AA	OG	NEC2014	
<b>BLANK2X125</b>			
AA	BK	NEC2014, NEC2017	

## Standards for HellermannTyton Identification

Material	Color (short)	Specifications	File#
<b>BLANK375X2</b>			
AA	BK	NEC2014, NEC2017	
<b>BLANK4X75</b>			
AA	BK	NEC2014, NEC2017	
<b>CBACKFED</b>			
443/552	RD	UL 969	MH11410
	YE	NEC2017, UL 969	
<b>CBACKFED10</b>			
443/552	YE	NEC2017, UL 969	MH11410
<b>CBACKFEDM5</b>			
AA	YE	NEC2017	
<b>CBACKFEDS</b>			
443/552	OG	UL 969	MH11410
	YE		
<b>CSCIRLBL</b>			
242/552	YE	ANSI Standard Z535.4, IFC 2012, NEC2011, NEC2014, UL 969	MH16736
<b>CSCIRLBL10</b>			
242/552	YE	NEC2014	MH11410
<b>CSCSNAP4R</b>			
V	RDRF	IFC 2012, NEC2011	
<b>CSCSNAP72R</b>			
V	RDRF	IFC 2012, NEC2011	
<b>CSESC</b>			
242/552	RD	IFC 2012, NEC2011, UL 969	MH11410
	YE	ANSI Standard Z535.4, IFC 2012, NEC2011, NEC2014, UL 969	MH16736
<b>CSESC10</b>			
242/552	YE	NEC2014	MH11410
<b>CSESCS</b>			
242/552	YE		MH16736
<b>DC2011</b>			
840/926	RD	CSA 66956, IFC 2012, NEC2011, UL 969	MH16736
<b>DC2011-1</b>			
840/926	RD	UL 969	MH16736
<b>DC201110</b>			
840/926	RD	CSA 66956, NEC2014	MH16736
<b>DC2011M5</b>			
AA	BK	NEC2014	
<b>DC2011M5ENG</b>			
AA	BK	NEC2014	
<b>DC20115</b>			
840/926	RD	CSA 66956, UL 969	MH16736
<b>DC2017</b>			
840/926	RD	CSA 66956, IFC 2012, NEC2017, UL 969	MH16736
<b>DC201710</b>			
840/926	RD	CSA 66956, NEC2017, UL 969	MH16736

Material	Color (short)	Specifications	File#
<b>DC2017M5</b>			
AA	BK	NEC2017	
<b>DC2017M5ENG</b>			
AA	BK	NEC2017	
<b>DCCB</b>			
V	RD		MH11410
<b>DCCB10</b>			
443/552	RD	NEC2014	MH16736
<b>DCD</b>			
V	RD		MH11410
<b>DCD10</b>			
443/552	RD		MH16736
<b>DCDISC-1</b>			
840/926	RD	UL 969	MH16736
<b>DCDISCS</b>			
840/926	RD	CSA 66956, UL 969	MH16736
<b>DCDISCT</b>			
840/926	RD	CSA 66956, IFC 2012, NEC2011, UL 969	MH16736
<b>DCDISCT10</b>			
840/926	RD	CSA 66956, NEC2017, UL 969	MH16736
<b>DCDISCTM5</b>			
AA	BK	NEC2014, NEC2017	
<b>DCDISCTM5ENG</b>			
AA	BK	NEC2014, NEC2017	
<b>DCJB</b>			
V	RD		MH11410
<b>DCJB10</b>			
443/552	RD	NEC2014	MH16736
<b>DCRATING</b>			
840/926	RD	CSA 66956, IFC 2012, NEC2011, UL 969	MH16736
<b>DCRATING-1</b>			
840/926	RD	UL 969	MH16736
<b>DCRATING10</b>			
840/926	RD	CSA 66956, NEC2014	MH16736
<b>DCRATINGM5</b>			
AA	BK	NEC2014	
<b>DCRATINGM5ENG</b>			
AA	BK	NEC2014	
<b>DNALP</b>			
V	RD		MH11410
<b>DNDCUL</b>			
242/552	RD	IFC 2012, NEC2011, NEC2017, UL 969	MH16736
<b>DNDCUL10</b>			
242/552	RD	NEC2017, UL 969	MH16736
<b>DS275X135</b>			
PET	RD		MH16736

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## Product Approvals and Specifications

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Material	Color (short)	Specifications	File#
<b>DS55X275</b>			
PET	RD		MH16736
<b>DV275X135</b>			
PET	RD		MH16736
<b>DV55X275</b>			
PET	RD		MH16736
<b>ECCMPV</b>			
V	RD		MH11410
<b>ECCMPV10</b>			
443/552	RD	NEC2014	MH11410
<b>ESSDCD</b>			
443/552	RD	NEC2017, UL 969	MH11410
<b>HFST39-13WH-S</b>			
PO-X	WH	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
<b>HFST39-13YE</b>			
PO-X	YE	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
<b>HFST39-13YE-S</b>			
PO-X	YE	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
<b>HL2X2YE</b>			
PET	YE		MH16736
<b>HL3X3YE</b>			
PET	YE		MH16736
<b>HST12-4BK</b>			
PO-X	BK	UL 224 125 °C 600V VW-1	
<b>HST12-4WH</b>			
PO-X	WH	UL 224 125 °C 600V VW-1	
<b>HST12-4WH-3S</b>			
PO-X	WH	UL 224 125 °C 600V VW-1	
<b>HST12-4WHAP</b>			
PO-X	WH	UL 224 125 °C 600V VW-1	
<b>HST12-4WH-S</b>			
PO-X	WH	UL 224 125 °C 600V VW-1	
<b>HST12-4YE</b>			
PO-X	YE	UL 224 125 °C 600V VW-1	
<b>HST12-4YE-3S</b>			
PO-X	YE	UL 224 125 °C 600V VW-1	
<b>HST12-4YE-S</b>			
PO-X	YE	UL 224 125 °C 600V VW-1	
<b>HST18-6BK</b>			
PO-X	BK	UL 224 125 °C 600V VW-1	
<b>HST18-6BK-S</b>			
PO-X	BK	UL 224 125 °C 600V VW-1	
<b>HST18-6WH</b>			
PO-X	WH	UL 224 125 °C 600V VW-1	

Material	Color (short)	Specifications	File#
<b>HST18-6WH-S</b>			
PO-X	WH	UL 224 125 °C 600V VW-1	
<b>HST18-6YE</b>			
PO-X	YE	UL 224 125 °C 600V VW-1	
<b>HST18-6YE-S</b>			
PO-X	YE	UL 224 125 °C 600V VW-1	
<b>HST24-8BK</b>			
PO-X	BK	UL 224 125 °C 600V VW-1	
<b>HST24-8BK-S</b>			
PO-X	BK	UL 224 125 °C 600V VW-1	
<b>HST24-8WH</b>			
PO-X	WH	UL 224 125 °C 600V VW-1	
<b>HST24-8WH-S</b>			
PO-X	WH	UL 224 125 °C 600V VW-1	
<b>HST24-8YE</b>			
PO-X	YE	UL 224 125 °C 600V VW-1	
<b>HST24-8YE-S</b>			
PO-X	YE	UL 224 125 °C 600V VW-1	
<b>HST3-1BK</b>			
PO-X	BK	UL 224 125 °C 600V	
<b>HST3-1BK-2S</b>			
PO-X	BK	UL 224 125 °C 600V VW-1	
<b>HST3-1BK-3S</b>			
PO-X	BK	UL 224 125 °C 600V VW-1	
<b>HST3-1BK-S</b>			
PO-X	BK	UL 224 125 °C 600V VW-1	
<b>HST3-1WH</b>			
PO-X	WH	UL 224 125 °C 600V VW-1	
		CEN	
<b>HST3-1WH-2S</b>			
PO-X	WH	CEN, SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531	
		CEN	
<b>HST3-1WH-3S</b>			
PO-X	WH	CEN	
<b>HST3-1WH-S</b>			
PO-X	WH	UL 224 125 °C 600V VW-1	
		CEN	
<b>HST3-1YE</b>			
PO-X	YE	UL 224 125 °C 600V VW-1	
<b>HST3-1YE-2S</b>			
PO-X	YE	CEN, SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531	
		CEN	
<b>HST3-1YE-S</b>			
PO-X	YE	UL 224 125 °C 600V VW-1	
		CEN, SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531	

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Material	Color (short)	Specifications	File#
<b>HST39-13WH</b>			
PO-X	WH	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
<b>HST4.8-1.6BK</b>			
PO-X	BK	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
<b>HST4.8-1.6BK-3S</b>			
PO-X	BK	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
<b>HST4.8-1.6WH</b>			
PO-X	WH	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
		CEN	
		UL 224 125 °C 600V VW-1	
		SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
<b>HST4.8-1.6WH-2S</b>			
PO-X	WH	CEN	
<b>HST4.8-1.6WH-3S</b>			
PO-X	WH	CEN, UL 224 125 °C 600V VW-1	
		CEN	
<b>HST4.8-1.6WHAP</b>			
PO-X	WH	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
<b>HST4.8-1.6WH-S</b>			
PO-X	WH	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
		CEN	
		SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
		CEN	
<b>HST4.8-1.6YE</b>			
PO-X	YE	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
<b>HST4.8-1.6YE-2S</b>			
PO-X	YE	CEN, SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531	
<b>HST4.8-1.6YE-S</b>			
PO-X	YE	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
<b>HST4.8-1YE-3S</b>			
PO-X	YE	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	

Material	Color (short)	Specifications	File#
<b>HST6-2BK</b>			
PO-X	BK	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
<b>HST6-2BK-2S</b>			
PO-X	BK	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
<b>HST6-2BK-3S</b>			
PO-X	BK	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
<b>HST6-2WH</b>			
PO-X	WH	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
<b>HST6-2WH-2S</b>			
PO-X	WH	CEN	
<b>HST6-2WH-3S</b>			
PO-X	WH	CEN	
<b>HST6-2WHAP</b>			
PO-X	WH	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
<b>HST6-2WH-S</b>			
PO-X	WH	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
		CEN	
		SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
<b>HST6-2YE</b>			
PO-X	YE	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
<b>HST6-2YE-2S</b>			
PO-X	YE	CEN, SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531	
<b>HST6-2YE-3S</b>			
PO-X	YE	CEN	
<b>HST6-2YE-S</b>			
PO-X	YE	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
		CEN	
<b>HST9-3BK</b>			
PO-X	BK	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
<b>HST9-3BK-3S</b>			
PO-X	BK	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	

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## Product Approvals and Specifications

### Standards for HellermannTyton Identification

Material	Color (short)	Specifications	File#
<b>HST9-3WH</b>			
PO-X	WH	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
<b>HST9-3WH-2S</b>			
PO-X	WH	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
<b>HST9-3WH-3S</b>			
PO-X	WH	CEN	
<b>HST9-3WHAP</b>			
PO-X	WH	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
<b>HST9-3WH-S</b>			
PO-X	WH	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
<b>HST9-3YE</b>			
PO-X	YE	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
<b>HST9-3YE-S</b>			
PO-X	YE	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
<b>HT1BK250</b>			
V	BK	UL 969	MH18396
<b>HT1BU250</b>			
V	BU	UL 969	
<b>HT1GN250</b>			
V	GN	UL 969	
<b>HT1OE250</b>			
V	OG	UL 969	
<b>HT1RD250</b>			
V	RD	UL 969	MH18396
<b>HT1RDHB250</b>			
840/926	RD	ANSI Standard Z535.4, CSA 66956, IFC 2012, NEC2011, NEC2014, UL 969	MH18396
<b>HT1RDRF250</b>			
V	RDRF	UL 969	
<b>HT1WH250</b>			
V	WH	UL 969	MH18396
<b>HT1YE250</b>			
V	YE	UL 969	MH18396
<b>HT2BK250</b>			
V	BK	UL 969	MH18396
<b>HT2BU250</b>			
V	BU	UL 969	
<b>HT2GN250</b>			
V	GN	UL 969	

Material	Color (short)	Specifications	File#
<b>HT2OE250</b>			
V	OG	UL 969	
<b>HT2OE50250</b>			
336/926	OG	CSA, UL 969	MH16736
<b>HT2OE50250UV</b>			
840/926	OG	ANSI Standard Z535.4, CSA 66956, IFC 2012, NEC2011, NEC2014, UL 969	MH16736
<b>HT2RD250</b>			
V	RD	UL 969	MH18396
<b>HT2RDHB250</b>			
840/926	RD	ANSI Standard Z535.4, CSA 66956, IFC 2012, NEC2011, NEC2014, UL 969	MH18396
<b>HT2RDRF250</b>			
V	RDRF	UL 969	
<b>HT2WH250</b>			
V	WH	UL 969	MH18396
<b>HT2YE250</b>			
V	YE	UL 969	MH18396
<b>HT2YE50250</b>			
336/926	YE	CSA, UL 969	MH16736
<b>HT3BK250</b>			
V	BK	UL 969	MH18396
<b>HT3BU250</b>			
V	BU	UL 969	
<b>HT3GN250</b>			
V	GN	UL 969	
<b>HT3OE250</b>			
V	OG	UL 969	
<b>HT3OE75250</b>			
336/926	OG	CSA, UL 969	
<b>HT3OE75250UV</b>			
840/926	OG	ANSI Standard Z535.4, CSA 66956, IFC 2012, NEC2011, NEC2014, UL 969	MH16736
<b>HT3RD250</b>			
V	RD	UL 969	MH18396
<b>HT3RDHB250</b>			
840/926	RD	ANSI Standard Z535.4, CSA 66956, IFC 2012, NEC2011, NEC2014, UL 969	MH16736
<b>HT3RDRF250</b>			
V	RDRF	UL 969	MH18396
<b>HT3WH250</b>			
V	WH	UL 969	MH18396
<b>HT3YE250</b>			
V	YE	UL 969	MH18396
<b>HT3YE75250</b>			
336/926	YE	CSA, UL 969	

## Standards for HellermannTyton Identification

Material	Color (short)	Specifications	File#
<b>HT4GN250</b>			
V	GN	UL 969	
<b>HT4OE10250</b>			
336/926	OG	CSA, UL 969	
<b>HT4OE10250UV</b>			
840/926	OG	ANSI Standard Z535.4, CSA 66956, IFC 2012, NEC2011, NEC2014, UL 969	MH16736
<b>HT4OE250</b>			
V	OG	UL 969	
<b>HT4RD250</b>			
V	RD	UL 969	MH18396
<b>HT4RDF100</b>			
V	RDRF	UL 969	
<b>HT4WH250</b>			
V	WH	UL 969	MH18396
<b>HT4YE10250</b>			
336/926	YE	CSA, UL 969	
<b>HT4YE250</b>			
V	YE	UL 969	
<b>HTS6-2YE</b>			
PO-X	YE	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531 , UL 224 125 °C 600V VW-1	
<b>IOC</b>			
V	YE		MH11410
<b>IOC10</b>			
443/552	YE	NEC2014	MH11410
<b>IOC0D</b>			
443/552	OG	UL 969	MH11410
<b>IOC0D10</b>			
443/552	OG	UL 969	MH11410
<b>IOC0D14</b>			
443/552	OG	UL 969	MH11410
<b>IOC0D17</b>			
443/552	OG	NEC2017, UL 969	MH11410
<b>IOC0D1710</b>			
443/552	OG	NEC2017, UL 969	MH11410
<b>IOC0D17M5</b>			
AA	OG	NEC2017	
<b>IOC0D17ST</b>			
443/552	OG	NEC2017, UL 969	MH11410
<b>IOC0D17ST10</b>			
443/552	OG	NEC2017, UL 969	MH11410
<b>IOC0DM5</b>			
AA	OG	NEC2014	
<b>IOC0DS</b>			
443/552	OG	UL 969	MH11410
<b>LAM1</b>			
443/552	CL	IFC 2012, NEC2011, UL 969	MH11410

Material	Color (short)	Specifications	File#
<b>LAM110</b>			
443/552	CL	NEC2014, NEC2017	MH11410
<b>M-BOSS Compact</b>			
	BU	2006/42/EG, EN 60204-1:2006, EN ISO 12100:2010	
<b>M-BOSS Compact Organiser</b>			
	BU	2006/42/EG, EN 60204-1:2006, EN ISO 12100:2010	
<b>MBSDIS</b>			
840/926	RD	CSA 66956, IFC 2012, NEC2017, UL 969	MH16736
<b>MPVACDIS</b>			
242/552	RD	IFC 2012, NEC2011, NEC2017, UL 969	MH16736
<b>MPVACDIS10</b>			
242/552	RD	NEC2017, UL 969	MH16736
<b>MPVACDISM5</b>			
AA	RD	NEC2017	
<b>MPVSD</b>			
242/552	RD	IFC 2012, NEC2011, NEC2017, UL 969	MH16736
<b>MPVSD10</b>			
242/552	RD	NEC2017, UL 969	MH16736
<b>MPVSDM5</b>			
AA	RD	NEC2017	
<b>PCP2X1</b>			
840W	WH	CSA 66956	MH16736
<b>PCP3X1</b>			
840W	WH	CSA 66956	MH16736
<b>PCP4X3</b>			
840W	WH	CSA 66956	MH16736
<b>PLB3P</b>			
PET	BK		MH18396
<b>PLW3P</b>			
PET	WH		MH16736
<b>PSEWRS</b>			
242/552	RD	ANSI Standard Z535.4, IFC 2012, NEC2011, NEC2014, UL 969	MH16736
<b>PSEWRS10</b>			
242/552	RD	NEC2014	MH16736
<b>PSEWRS17</b>			
242/552	RD	NEC2017	MH16736
<b>PSEWRS1710</b>			
242/552	RD	NEC2017, UL 969	MH16736
<b>PSEWRSS</b>			
242/552	RD	UL 969	MH16736
<b>PSKWH</b>			
V	RD		MH11410
<b>PSKWH10</b>			
443/552	RD	NEC2014	MH11410

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## Product Approvals and Specifications

### Standards for HellermannTyton Identification

Material	Color (short)	Specifications	File#
<b>PVACDIS</b>			
840/926	RD	CSA 66956, IFC 2012, NEC2011, UL 969	MH16736
<b>PVACDIS-1</b>			
840/926	RD	UL 969	MH16736
<b>PVACDIS10</b>			
840/926	RD	CSA 66956, NEC2014	MH16736
<b>PVACDIS17</b>			
840/926	RD	CSA 66956	MH16736
<b>PVACDIS1710</b>			
840/926	RD	CSA 66956, NEC2017, UL 969	MH16736
<b>PVACDIS17M5</b>			
AA	BK	NEC2017	
<b>PVACDIS17M5ENG</b>			
AA	BK	NEC2017	
<b>PVACDISM5</b>			
AA	BK	NEC2014	
<b>PVACDISM5ENG</b>			
AA	BK	NEC2014	
<b>PVACDISS</b>			
840/926	RD	CSA 66956, UL 969	MH16736
<b>PVPSR</b>			
242/552	RD	IFC 2012, NEC2011, NEC2017, UL 969	MH16736
<b>PVPSR10</b>			
242/552	RD	NEC2017, UL 969	MH16736
<b>PVPSR500</b>			
242/552	RD	IFC 2012, NEC2011, UL 969	MH16736
<b>PVPSRTM</b>			
242/552	RDRF	IFC 2012, NEC2011, UL 969	MH16736
<b>PVPSSNAP4</b>			
V	RDRF	IFC 2012, NEC2011	
<b>PVPSSNAP72</b>			
V	RDRF	IFC 2012, NEC2011	
<b>PW.25W1</b>			
V	WH	UL-Recognized	MH18396
<b>PW.50W1</b>			
V	WH	UL-Recognized	MH18396
<b>PW.50W2</b>			
V	WH	UL-Recognized	MH18396
<b>PW2.75W1</b>			
V	WH	UL-Recognized	MH18396
<b>PW2.75W2</b>			
V	WH	UL-Recognized	MH18396
<b>RO175</b>			
100	WH		MH18396
<b>RO175WP</b>			
100	WH		MH18396
<b>RO512</b>			
100	WH, CL		MH18396

Material	Color (short)	Specifications	File#
<b>RO512REF</b>			
100	WH		MH18396
<b>RO514</b>			
100	WH		MH18396
<b>RSDRD17</b>			
242/552	RD	NEC2017	MH16736
<b>RSDRD1710</b>			
242/552	RD	NEC2017, UL 969	MH16736
<b>RSDYL17</b>			
242/552	YE	NEC2017	MH16736
<b>RSDYL1710</b>			
242/552	YE	NEC2017, UL 969	MH16736
<b>SMPV</b>			
V	OG		MH11410
<b>SMPV10</b>			
443/552	OG	NEC2014	MH11410
<b>SOLARD</b>			
242/552	RD	IFC 2012, NEC2011, UL 969	MH16736
<b>SOLARD10</b>			
242/552	RD	NEC2014	MH16736
<b>SOLARDS</b>			
242/552	RD		MH16736
<b>SSB</b>			
V	RD		MH11410
<b>TAG1</b>			
100	WH	UL-Recognized	MH18396
<b>TAG10</b>			
100	WH	UL-Recognized	MH18396
<b>TAG10T2</b>			
100B	WH	UL-Recognized	MH18396
<b>TAG11T4</b>			
822	WH	UL-Recognized	MH18396
822C	CL		
<b>TAG13T4</b>			
822	WH	UL-Recognized	MH18396
<b>TAG14</b>			
400	WH	UL-Recognized	MH18396
<b>TAG15</b>			
400	WH	UL-Recognized	MH18396
600	SR		
<b>TAG15T3</b>			
795	SR	UL-Recognized	MH18396
822	WH		
822C	CL		
<b>TAG16</b>			
400	WH	UL-Recognized	MH18396
<b>TAG16T3</b>			
822	WH	UL-Recognized	MH18396



## Standards for HellermannTyton Identification

Material	Color (short)	Specifications	File#
<b>TAG17T2</b>			
822	WH	UL-Recognized	MH18396
<b>TAG1T1</b>			
100B	WH	UL-Recognized	MH18396
<b>TAG2</b>			
100	WH	UL-Recognized	MH18396
<b>TAG22</b>			
100	WH	UL-Recognized	MH18396
<b>TAG22T2</b>			
100B	WH	UL-Recognized	MH18396
<b>TAG22T3</b>			
100B	WH	UL-Recognized	MH18396
<b>TAG23</b>			
100	WH	UL-Recognized	MH18396
<b>TAG24</b>			
100	WH	UL-Recognized	MH18396
<b>TAG24T1</b>			
100B	WH	UL-Recognized	MH18396
<b>TAG25</b>			
100	WH	UL-Recognized	MH18396
<b>TAG26</b>			
100	WH	UL-Recognized	MH18396
<b>TAG26T6</b>			
100B	WH	UL-Recognized	MH18396
<b>TAG27</b>			
400	WH	UL-Recognized	MH18396
600			
<b>TAG27T1</b>			
795	SR	UL-Recognized	MH18396
822	WH		
822C	CL		
<b>TAG2T5</b>			
100B	WH	UL-Recognized	MH18396
<b>TAG3</b>			
100	WH	UL-Recognized	MH18396
<b>TAG38T4</b>			
100B	WH	UL-Recognized	MH18396
<b>TAG3T3</b>			
100B	WH	UL-Recognized	MH18396
<b>TAG44</b>			
400	WH	UL-Recognized	MH18396
<b>TAG5</b>			
100	WH	UL-Recognized	MH18396
<b>TAG51T3</b>			
100B	WH	UL-Recognized	MH18396
<b>TAG53T2</b>			
100B	WH	UL-Recognized	MH18396
<b>TAG6</b>			
100	WH	UL-Recognized	MH18396

Material	Color (short)	Specifications	File#
<b>TAG68T1</b>			
336	WH	UL-Recognized	MH16736
<b>TAG69T1</b>			
336	WH	UL-Recognized	MH16736
<b>TAG6T1</b>			
100B	WH	UL-Recognized	MH18396
<b>TAG70T12</b>			
822	WH	UL-Recognized	MH18396
<b>TAG71T5</b>			
822	WH	UL-Recognized	MH18396
<b>TAG72T1</b>			
795	SR	UL-Recognized	MH18396
822	WH		
<b>TAG73T1</b>			
795	SR	UL-Recognized	MH18396
822	WH		
PO			
<b>TAG75T1</b>			
795	SR	UL-Recognized	MH18396
822	WH		
<b>TAG76T1</b>			
795	SR	UL-Recognized	MH18396
<b>TAG78T1</b>			
795	SR	UL-Recognized	MH18396
<b>TAG79T1</b>			
795	SR	UL-Recognized	MH18396
<b>TAG7T1</b>			
100B	WH	UL-Recognized	MH18396
<b>TAG80T1</b>			
795	SR	UL-Recognized	MH18396
<b>TAG81T8</b>			
822	WH	UL-Recognized	MH18396
<b>TAG82T2</b>			
822	WH	UL-Recognized	MH18396
<b>TAG83T1</b>			
822	WH	UL-Recognized	MH18396
<b>TAG84T3</b>			
822	WH	UL-Recognized	MH18396
<b>TAG9</b>			
100	WH	UL-Recognized	MH18396
<b>TAG96T1</b>			
336	WH	UL-Recognized	MH16736
<b>TAG9T3</b>			
100B	WH	UL-Recognized	MH18396
<b>TAGPP1T6</b>			
822	WH	UL-Recognized	MH18396
822C	CL		

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Material	Color (short)	Specifications	File#
<b>TAGPP3T4</b>			
822	WH	UL-Recognized	MH18396
<b>TIPTAGVA10X65YEWH</b>			
PO	BK	BS-4G-198-3, Type 11a, MIL-STD-202G Method 215K, SAE - AS81531	
<b>TIPTAGVA10X90YEWH</b>			
PO	BK	BS-4G-198-3, Type 11a, MIL-STD-202G Method 215K, SAE - AS81531	
<b>TIPTAGVA15X65YEWH</b>			
PO	BK	BS-4G-198-3, Type 11a, CEN	

<b>TIPTAGVA15X90YEWH</b>			
PO	WH, YE	BS-4G-198-3, Type 11a, MIL-STD-202G Method 215K, SAE - AS81531	
<b>TT4030</b>			
MET	GY	2011/65/EU, 2014/35/EU, CE 2014/35/EU, DIN EN 55032:2012-12, DIN EN 55032:2016-02, DIN EN 55032 Berichtigung 1:2013-04, DIN EN 61000-6-2:2006-03, DIN EN 61000-6-2 Berichtigung 1:2011-06, EN 61000-3-2, EN 61000-6-2, IEC 60950-1, IEC 60950-1;am1, IEC 60950-1;am2	
<b>TT822OUT</b>			
PET	BK		MH18396
<b>WDCCU</b>			
443/552	OG RD	UL 969	MH11410
<b>WDCCU10</b>			
443/552	OG	NEC2014	MH11410
<b>WDCCUM5</b>			
AA	OG	NEC2014	
<b>WDGC17</b>			
443/552	OG	NEC2017, UL 969	MH11410
<b>WDGC1710</b>			
443/552	OG	NEC2017, UL 969	MH11410
<b>WDGC17M5</b>			
AA	OG	NEC2017	
<b>WDPSLBL</b>			
443/552	OG RD	NEC2017, UL 969 UL 969	MH11410
<b>WDPSLBL10</b>			
443/552	OG	NEC2017, UL 969	MH11410
<b>WDPSLBLM5</b>			
AA	OG	NEC2017	
<b>WESHLBL</b>			
443/552	OG RD	UL 969	MH11410

Material	Color (short)	Specifications	File#
<b>WESHLBL10</b>			
443/552	OG	NEC2014	MH11410
<b>WESHLBL17</b>			
443/552	OG	NEC2017, UL 969	MH11410
<b>WESHLBL1710</b>			
443/552	OG	NEC2017, UL 969	MH11410
<b>WESHLBL17M5</b>			
AA	OG	NEC2017	
<b>WESHLBLDC</b>			
443/552	OG RD	UL 969	MH11410
<b>WESHLBLDC10</b>			
443/552	OG	UL 969	MH11410
<b>WESHLBLDC17</b>			
443/552	OG	NEC2017, UL 969	MH11410
<b>WESHLBLDC1710</b>			
443/552	OG	NEC2017, UL 969	MH11410
<b>WESHLBLDC17M5</b>			
AA	OG	NEC2017	
<b>WESHLBLDCM5</b>			
AA	OG	NEC2014	
<b>WESHLBLDCS</b>			
443/552	OG	UL 969	MH11410
<b>WESHLBLM5</b>			
AA	OG	NEC2014	
<b>WGCME</b>			
443/552	OG RD	UL 969	MH11410
<b>WGCME10</b>			
443/552	OG	UL 969	MH11410
<b>WGCMEM5</b>			
AA	OG	NEC2014	
<b>WS275X135</b>			
PET	OG		MH16736
<b>WS55X275</b>			
PET	OG		MH16736
<b>WTOPVLBL</b>			
443/552	OG RD	NEC2017, UL 969 UL 969	MH11410
<b>WTOPVLBL10</b>			
443/552	OG	NEC2017, UL 969	MH11410
<b>WTOPVLBLM5</b>			
AA	OG	NEC2017	
<b>WV275X135</b>			
PET	OG		MH16736
<b>WV55X275</b>			
PET	OG		MH16736

## Standards for HellermannTyton Application Tools

Material	Colour (short)	Specifications	File#
<b>AZ100</b>			
PA66	NA	ANSI/UL 1565, ANSI/UL 62275	E64962
PA66HSW	BK		
<b>EVO7</b>			
MET, PL	BK	CAGE Code 53421	
<b>T18RA50</b>			
PA66	NA	CAGE Code 53421, UL-ZODZ2.E64139	E64139
PA66HS	BK		
PA66V0	WH	ANSI/UL 1565, ANSI/UL 62275	E64962
<b>T18RA5000</b>			
PA66	NA	CAGE Code 53421, UL-ZODZ2.E64139	E64139
PA66HS	BK		
<b>T30RA</b>			
PA66	NA	CAGE Code 53421, UL-ZODZ2.E64139	E64139
PA66HS	BK		

## Standards for HellermannTyton Electrical Installation

Material	Colour (short)	Specifications	File#
<b>ET33</b>			
PVC	BK		E50292
<b>ET66</b>			
PVC	BK		E50292
<b>ETCW66</b>			
PVC	BK	MIL-1-24391-A	E50292
<b>ETST66</b>			
PVC	BU		E50292
	GN		
	GY		
	OG		
	RD		
	WH		
YE			
<b>HCPM-2</b>			
PC	CL, YE	2006/65/EC, ANSI/UL 486-A, ANSI/UL 486-B, ANSI/UL 486-C, cULus, EN 60998-2-2:2004, EN 60998-2-2:201, ENEC	E316080
<b>HCPM-3</b>			
PC	CL, OG	2006/65/EC, ANSI/UL 486-A, ANSI/UL 486-B, ANSI/UL 486-C, cULus, EN 60998-2-2:2004, EN 60998-2-2:201, ENEC	E316080
<b>HCPM-4</b>			
PC	CL	2006/65/EC, ANSI/UL 486-A, ANSI/UL 486-B, ANSI/UL 486-C, cULus, EN 60998-2-2:2004, EN 60998-2-2:201, ENEC	E316080
<b>HCPM-5</b>			
PC	CL, BU	2006/65/EC, ANSI/UL 486-A, ANSI/UL 486-B, ANSI/UL 486-C, cULus, EN 60998-2-2:2004, EN 60998-2-2:201, ENEC	E316080
<b>HCPM-6</b>			
PC	CL, VT	2006/65/EC, ANSI/UL 486-A, ANSI/UL 486-B, ANSI/UL 486-C, cULus, EN 60998-2-2:2004, EN 60998-2-2:201, ENEC	E316080
<b>HCPM-8</b>			
PC	CL, BK	2006/65/EC, ANSI/UL 486-A, ANSI/UL 486-B, ANSI/UL 486-C, cULus, EN 60998-2-2:2004, EN 60998-2-2:201, ENEC	E316080

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