Cable Management and Identification Solutions

Solar Power Solutions

HellermannTyton

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securing tomorrow's energy

Securing Tomorrow's Energy

Harnessing solar energy into the power we use requires innovation and reliability. At HellermannTyton, we deliver solutions that advance renewable energy initiatives. Our products manage, protect, and identify wire, cable and components which transmit solar energy. Developing custom and patented solutions which uniquely solve application issues is our specialty. Providing solutions that work in challenging environments for the lowest installed cost is how we have built our solid reputation. Whether it is for manufacturing solar modules or installation of commercial, residential, or solar farm projects, HellermannTyton provides the products you require to meet the rigorous demands of the industry.

- Improve quality
- Ease installation
- Reduce rework and warranty claims
- Create cost savings

HellermannTyton products have undergone stringent quality inspections and are UL, CSA, and CE Certified.
HellermannTyton is TS16949, ISO 9001, and ISO14001 registered.

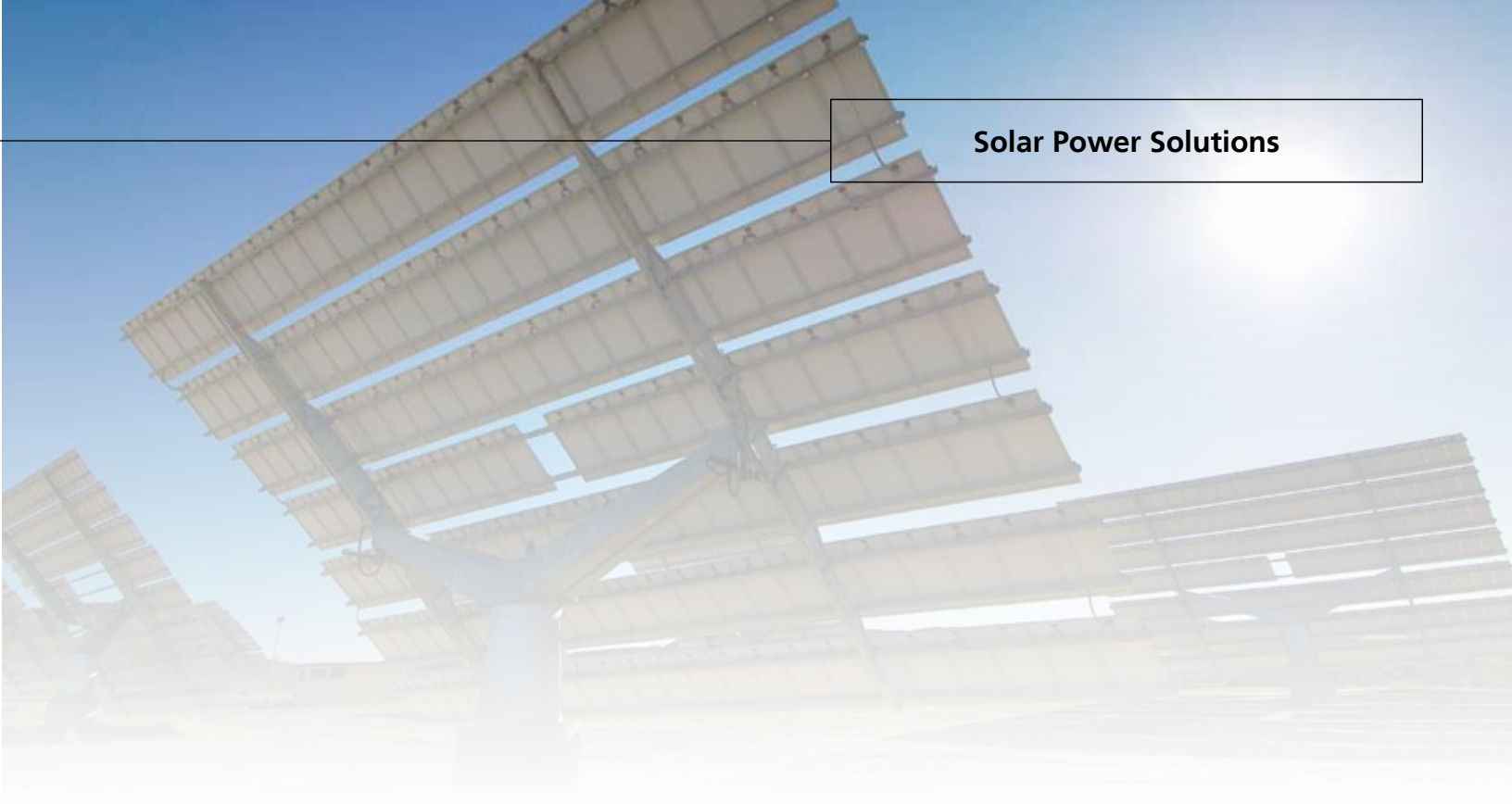
A global company for a global industry

HellermannTyton is located in over 30 countries in every region of the world. With this global footprint, HellermannTyton utilizes its unique set of resources to deliver what you need:

- Ingenious product solutions offering the lowest installed cost
- Global key account management
- Delivery from local facilities, wherever in the world you need them

HellermannTyton Solar E-Clips is a line of products designed specifically to route and secure cables to solar panel frames and modules. Our range of Solar E-Clips accommodates various frame styles or PV modules and eliminates the need for mounting holes and mechanical fasteners. Combined with our high-performing materials suitable for outdoor use, HellermannTyton Solar E-Clips provide the quality and performance needed for the solar industry.

Look for the Solar E-Clips symbol on the following pages to find solutions in this product group.



Solar Power Solutions

Bundling & Securing

HellermannTyton's range of products works together to provide customers with the lowest installation costs in the solar industry. From panel manufacturers to systems integrators, HellermannTyton provides innovative solutions to help solve customers' needs. Utilizing the latest technologies in design and prototyping tools, our experienced development teams work closely with customers to assure ground-breaking performance, lower labor rates, reduced administrative and inventory costs, and overall results which exceed expectations.

Wire and Cable Protection

HellermannTyton has a wide array of solutions to efficiently route and protect wire and cable. From control cabinets, inverter boxes, and wherever routed cable needs protection, our offerings from wiring duct to Spiralwrap allow you to find the perfect fit for your next project.

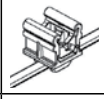
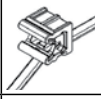
Identification

HellermannTyton's identification systems produce clear, durable labeling for wires, cables and components. HellermannTyton offers a wide range of printing solutions - from hand-held portable printers to fully automated print and apply systems. Universal in their ability to reduce labor, speed production and cut labeling costs, HellermannTyton's systems accommodate both wire harnessing and field applications. HellermannTyton's labeling systems include label design software called TagPrint™ Pro that allows the user to design almost any type of label including graphic images, barcodes, logos and more. HellermannTyton offers UL recognized labels that are suitable for indoor and outdoor use.

Edge Clip and UV Stabilized Cable Tie Assemblies

HellermannTyton's high-performance edge clip and UV stabilized cable tie assemblies are designed specifically to route cables by securing them to a metal or plastic frame rail edge, eliminating the need for mounting holes and mechanical fasteners. 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. The cable tie firmly grips the cable, preventing chafing of the cable and ensuring long-term reliability.

Product Selection

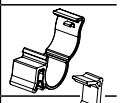
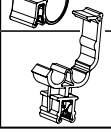
Article No.	Part No.	Type	Min. Tensile Strength	Length	Max Bundle	Color	Pkg. Qty	Drawing
			lbs. (N)	in. (mm)	in. (mm)			
1-3 mm Edge Thickness								
156-00635	156-00635	T50REC4A	50 (225)	7.9 (200)	1.8 (45)	Black	100	
156-00588	156-00588	T50REC4B	50 (225)	7.9 (200)	1.8 (45)	Black	100	
156-00589	156-00589	T50REC5A	50 (225)	7.9 (200)	1.8 (45)	Black	100	
156-00468	156-00468	T50REC5B	50 (225)	7.9 (200)	1.8 (45)	Black	100	
3-6 mm Edge Thickness								
156-00590	156-00590	T50REC19	50 (225)	7.9 (200)	1.8 (45)	Black	100	
156-00591	156-00591	T50REC20	50 (225)	7.9 (200)	1.8 (45)	Black	100	
156-00592	156-00592	T50REC23	50 (225)	7.9 (200)	1.8 (45)	Black	100	
156-00593	156-00593	T50REC24	50 (225)	7.9 (200)	1.8 (45)	Black	100	

Use Part No. for ordering and Type for specification.

Edge Cable Clip

HellermannTyton's edge cable clips are designed specifically to route bundles by securing them to the edge of a metal or plastic edge without the need for a mounting hole. The edge clip is easy to secure and the extraction force is high due to the integrated metal clamp that holds the edge clip in place. The solar cable is secured to the clip by a reclosable locking feature.

Product Selection

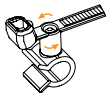
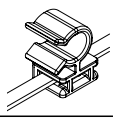
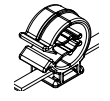
Article No.	Part No.	Type	Panel Thickness Min	Panel Thickness Max	Max Bundle	Color	Pkg. Qty	Drawing
			in. (mm)	in. (mm)	in. (mm)			
151-00174	151-00174	EC39	.04 (1)	.12 (3)	.62 (15.6)	Black	250	
151-00234	151-00234	EC41	.14 (3.5)	.20 (5)	2 x .32 (2 x 8)	Black	750	

Use Part No. for ordering and Type for specification.

C Clips

C Clips & Omega Clips secure solar cables to tubular frame rails. The cable tie is fastened to the tubular frame rail and the solar cable simply snaps into the clip. The cable can be removed from the clip and reinstalled without additional fasteners. The C Clip with Fir Tree Mount is ideal for panels with pre-drilled holes. Manufactured of an impact-modified Polyamide 6.6 material, the C Clip with Fir Tree Mount offers increased flexibility along with heat resistance and UV stabilization.

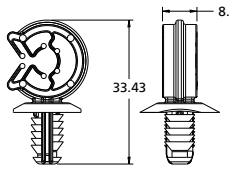
Product Selection

Article No.	Part No.	Type	Min. Tensile Strength	Length	Max Bundle	Width	Hose Clip Diameter	Color	Pkg. Qty	Drawing
			lbs. (N)	in. (mm)	in. (mm)	in. (mm)	in. (mm)			
156-00155	156-00155	T50SVC65	50 (225)	6.1 (155)	1.38 (35)	.19 (4.7)	.26 -.32 (6.5-8)	Black	500	
156-00594	156-00594	T50ROC2	50 (225)	7.9 (200)	1.80 (45)	.19 (4.7)	.26 -.30 (6.5-7.5)	Black	500	
156-00306	156-00306	T50ROC1B	50 (225)	7.9 (200)	1.80 (45)	.18 (4.6)	.16 -.40 (4.0-10.0)	Black	500	

Product Selection

Article No.	Part No.	Type	Panel Thickness Range	Bundle Diameter Range	Mounting Hole Diameter	Material	Color	Pkg. Qty.
			in. (mm)	in. (mm)	in. (mm)			
C Clip w/ Fir Tree								
151-00927	151-00927	SC6.6	.03 - .25 (.7 - 6.35)	.24 - .30 (6.0 - 7.6)	.25 - .28 (6.35 - 7.0)	PA66HIRHSUV	Black	100

Use Part No. for ordering and Type for specification.



UV Stabilized Cable Ties

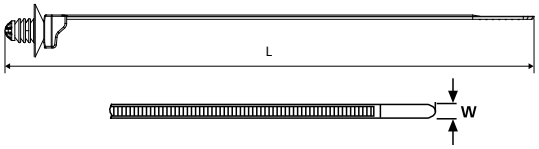
Specially designed for the solar industry, HellermannTyton offers cable ties made of UV stabilized PA66UV material. This provides additional protection against UV radiation for long-term outdoor use and is available in various styles, tensile strengths and bundle diameters.

Product Selection

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

Use Part No. for ordering and Type for specification.

Cable Tie with Fir Tree Mount



This fir tree mount cable tie provides a low insertion force with a high extraction force. This tie has outside serrations that present a smooth surface to the cable, preventing damage to the insulation. The unique head design of this tie allows for a firm hold on bundles as small as .06" in diameter; the disc offers added water protection. Manufactured of impact-modified Polyamide 6.6 material, offering increased flexibility along with heat resistance and UV stabilization.

Product Selection

Article No.	Part No.	Type	Min. Tensile Strength	Mounting Hole	Panel Thickness	Length	Max Bundle	Width	Color	Pkg. Qty	Drawing
			lbs. (N)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)			
157-00107	157-00107	T50SOSFT6LGE	40 (180)	.25 - .28 (6.3 - 7.0)	.03 - .28 (.7 - 7.0)	6.5 (165)	1.4 (35)	.18 (4.6)	Black	1000	

Use Part No. for ordering and Type for specification.

CUSTOM ENGINEERED FASTENERS

HellermannTyton is known for its ability to work with customers to solve specific application issues, design a solution to ideally fit the application, and produce it within the required time frames. Our product development team provides superior fastening solutions through innovative designs and a quick concept to production cycle.

UV Stabilized Mounting Base with Special Adhesive

Mounting bases are used in conjunction with cable ties to stabilize and secure cables and wire bundles. These mounting bases can be used directly on a solar panel, frame or a converter box. Specifically designed for the solar industry, our UV stabilized mounts and VHB acrylic adhesive resists UV light and seals against moisture and environmental conditions, while providing a strong bond to the surface. Whether used indoors or outdoors, we have a mounting solution for your needs.

Product Selection

Article No.	Part No.	Type	Cable Tie Series	Mounting	Length in. (mm)	Width in. (mm)	Height in. (mm)	Color	Pkg. Qty	Drawing
151-00646	151-00646	MB4A	T18-T50	Adhesive	1.12 (28)	1.12 (28)	.23 (5.9)	Black	500	

Use Part No. for ordering and Type for specification.

Cable Tie Tools

Specially developed for maximum ergonomic and performance values, the Mark 7 and Mark 9 series tools combine reduced hand effort and durable components to ensure efficient assembly and a longer life cycle. The Mark 7 tools are used with T18 through T50 series HellermannTyton cable ties and is the preferred tool for harness manufacturers. The Mark 9 tool (as shown) can be used with nearly every HellermannTyton cable tie.

Fastening Solutions Made Simple.

1

Ready to install solutions

With thousands of HellermannTyton products available for immediate use, it is easy to find an existing solution which will fit your application.

2

Optimizing existing products

Whether a simple modification or more extensive change, HellermannTyton is dedicated to optimizing our existing products to fit your specific need.

3

Complete tailor-made solutions

HellermannTyton can work with you on a personalized basis to engineer and manufacture a solution which is ideal for you.

Foam Nameplate Labels

Foam nameplate labels are designed to replace plastic and metal engraved phenolic plates commonly found on control panels. The labels have a foam base so that they conform to textured surfaces, but still provide a perfectly flat printing surface that is resistant to chemicals, solvents, heat and UV exposure. HellermannTyton's foam nameplate labels include computer printable button labels that fit around the panel hole where the button is inserted. The foam nameplate labels can be printed on demand in any volume needed, and any design can be printed on the labels using TagPrint™ Pro labeling software and HellermannTyton thermal transfer printers.

Product Selection

Article No.	Part No.	Type	Width in. (mm)	Height in. (mm)	Hole Diameter	Color	Pkg. Type	Pkg. Qty
Foam Nameplates								
596-00500	596-00500	NPL27X13WH	1.06 (26.9)	.49 (12.4)	N/A	White	RL	500
596-00503	596-00503	NPL27X13BK	1.06 (26.9)	.49 (12.4)	N/A	Black	RL	500
596-00504	596-00504	NPL51X25WH	2 (50.8)	1 (25.4)	N/A	White	RL	500
596-00507	596-00507	NPL51X25BK	2 (50.8)	1 (25.4)	N/A	Black	RL	500
596-00417	596-00417	NPL76X101WH	3 (76.2)	4 (101.6)	N/A	White	RL	150
Foam Button Nameplates								
596-00412	596-00412	NPLH31X31WH22.5	1.25 (31.7)	1.25 (31.7)	.88" (22.3)	White	RL	250
596-00413	596-00413	NPLH31X31BK22.5	1.25 (31.7)	1.25 (31.7)	.88" (22.3)	Black	RL	250
596-00414	596-00414	NPLH44X44WH30.5	1.75 (44.4)	1.75 (44.4)	1.2" (30.4)	White	RL	250
596-00415	596-00415	NPLH44X44BK30.5	1.75 (44.4)	1.75 (44.4)	1.2" (30.4)	Black	RL	250

Use Part No. for ordering and Type for specification.

Part No. SPLLABELBASE is a sample pack that contains one each of the following part numbers: 596-00504, 59600412 and 59600414

Pre-printed Installation Labels

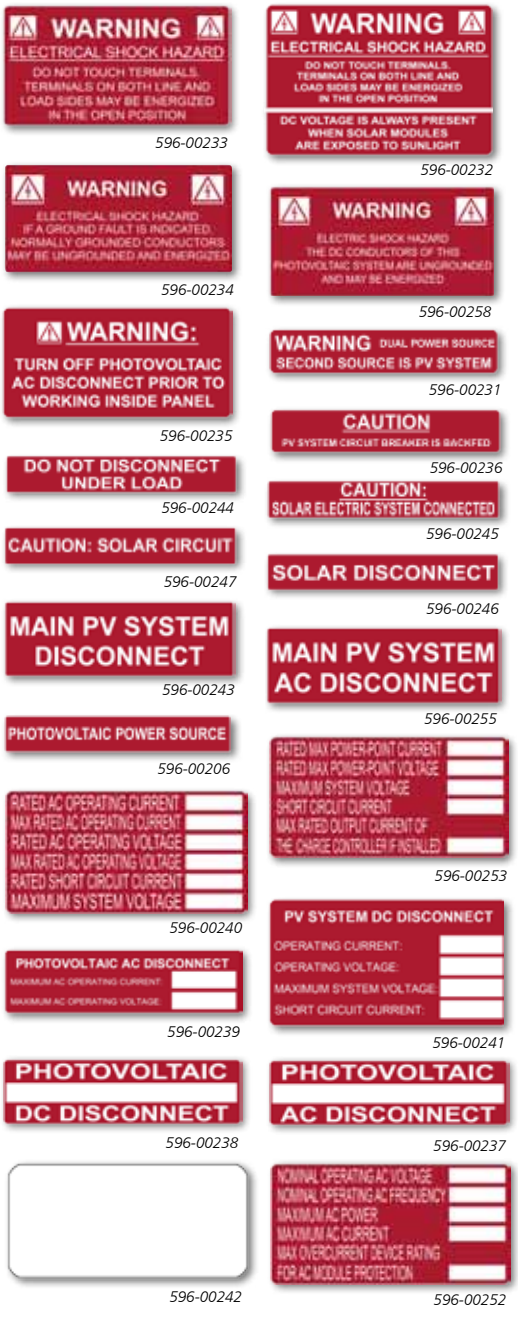
HellermannTyton offers a complete line of pre-printed, regulatory solar identification labels for use on small or large scale photovoltaic installations. Designed to meet the current National Electrical Code (NEC) and International Fire Code (IFC) requirements for durability, color, text height and visibility, HellermannTyton's solar installation labels are manufactured based on the parameters outlined in Section 690 of the NEC, for Solar Photovoltaic (PV) Systems, using ultraviolet (UV) resistant ink, permanent acrylic adhesive, and a base material intended to endure harsh environmental elements. An optional hand-applied acrylic laminate is available to provide additional long-term protection to variable printed text. The adhesives are expressly intended to offer performance on both enamel baked paints and powder coats found on most breaker boxes and panels.

The PHOTOVOLTAIC POWER SOURCE MARKERS are a pre-printed, non-adhesive, coiled marker can be opened and snapped over the cable for long term, reflective, permanent identification per NEC 2011, Article 690.31(E)(3) and IFC 2012, Article 605.11.1.4. Designed with UV stable vinyl, coiled markers come 25 per bag and will fit all standard PV cables or EMT conduit. Printed characters are the required 3/8" tall.

Product Selection

Article No.	Part No.	Type	Pkg. Qty	Description
Pre-printed Solar Labels				
596-00233	596-00233	WESHLBL	50	WARNING - ELECTRICAL SHOCK HAZARD 3.75" X 2.0"
596-00232	596-00232	WESHLBLDC	50	WARNING - ELECTRICAL SHOCK HAZARD W/DC 3.75" X 2.5"
596-00234	596-00234	WGCME	50	WARNING - GROUNDED CONDUCTORS MAY BE ENERGIZED 4.12" X 2"
596-00258	596-00258	WDCCU	50	WARNING - DC CONDUCTORS MAY BE ENERGIZED 4.12" X 2"
596-00235	596-00235	WTOPVLBL	50	WARNING - TURN OFF PV AC PRIOR WORKING INSIDE PANEL 4.12" X 2"
596-00231	596-00231	WEPSLBL	50	WARNING - TURN OFF PV AC PRIOR WORKING INSIDE PANEL 4.12" X 2"
596-00236	596-00236	CBACKFED	50	CAUTION - PV SYSTEM CIRCUIT IS BACKFED 4.12" X .75"
Reflective Solar Labels				
596-00244	596-00244	DNDCUL	50	DO NOT DISCONNECT UNDER LOAD 6.5" X 1"
596-00245	596-00245	CSESC	50	CAUTION - SOLAR ELEC SYS CONNECTED 6.5" X 1"
596-00247	596-00247	CSCIRLBL	50	CAUTION - SOLAR CIRCUIT 6.5" X 1"
596-00246	596-00246	SOLARD	50	SOLAR DISCONNECT 6.5" X 1"
596-00243	596-00243	MPVSD	50	MAIN PV SYSTEM DISCONNECT 5.5" X 1.75"
596-00255	596-00255	MPVACDIS	50	MAIN PV SYSTEM AC DISCONNECT 5.5" X 1.75"
596-00206	596-00206	PVPSR	50	PHOTOVOLTAIC POWER SOURCE 6.5" X 1"
Variable Imprint Solar Rating Labels				
596-00253	596-00253	DC2011	50	DC MODULE LABEL 4" X 2"
596-00240	596-00240	ACRATING	50	DC BACKUP SYSTEM LABEL 4" X 2"
596-00241	596-00241	DCRATING	50	DC RATING LABEL 3.75" X 2"
596-00239	596-00239	PVACDIS	50	PV AC DISCONNECT RATING 3.75" X 1"
596-00237	596-00237	ACDISCT	50	PHOTOVOLTAIC - AC DISCONNECT 3.75" X 1"
596-00238	596-00238	DCDISCT	50	PHOTOVOLTAIC - DC DISCONNECT 3.75" X 1"
596-00242	596-00242	LAM1	50	LAMINATE FOR AC/DC RATING LABEL 4.2" X 2.25"
596-00252	596-00252	AC2011	50	AC MODULE LABEL 4" X 2"
Photovoltaic Power Source Markers				
596-00249	596-00249	CSCSNAP4R	25	CAUTION - SOLAR CIRCUIT 4" X 2" Use on .25" OD PV cables
596-00251	596-00251	CSCSNAP72R	25	CAUTION - SOLAR CIRCUIT 7.2" X 5" For EMT conduits up to 1" in OD
596-00207	596-00207	PVPSSNAP4R	25	PHOTOVOLTAIC POWER SOURCE 4" X 2" Use on .25" OD PV cables
596-00208	596-00208	PVPSSNAP72R	25	PHOTOVOLTAIC POWER SOURCE 7.2" X 5" For EMT conduit up to 1" in OD

Use Part No. for ordering and Type for specification.



Photovoltaic Power Source Markers
596-00249 - 596-00208

Continuous Vinyl Labels

HellermannTyton's continuous vinyl labels come in a variety of colors and printing widths. Designed to optimize unique and custom printing designs on demand, vinyl labels allow the maximum flexibility for printing unique sizes of labels. The vinyl is UV resistant up to five years in outdoor applications and can be used to print warning labels, voltage markers, switch identifiers, and even pipe markers using TagPrint™ Pro labeling software and any HellermannTyton thermal transfer printing system.

Product Selection

Article No.	Part No.	Type	Width in. (mm)	Length ft. (m)	Description	Color	Pkg. Type	Pkg. Qty
558-00309	558-00309	HT1WH250	1 (25.4)	250 (76)	White Vinyl on Continuous Roll	White	RL	1
558-00313	558-00313	HT2WH250	2 (50.8)	250 (76)	White Vinyl on Continuous Roll	White	RL	1
558-00310	558-00310	HT1YE250	1 (25.4)	250 (76)	Yellow Vinyl on Continuous Roll	Yellow	RL	1
558-00314	558-00314	HT2YE250	2 (50.8)	250 (76)	Yellow Vinyl on Continuous Roll	Yellow	RL	1
558-00308	558-00308	HT1RD250	1 (25.4)	250 (76)	Red Vinyl on Continuous Roll	Red	RL	1
558-00312	558-00312	HT2RD250	2 (50.8)	250 (76)	Red Vinyl on Continuous Roll	Red	RL	1
558-00307	558-00307	HT1BK250	1 (25.4)	250 (76)	Black Vinyl on Continuous Roll	Black	RL	1
558-00311	558-00311	HT2BK250	2 (50.8)	250 (76)	Black Vinyl on Continuous Roll	Black	RL	1
Thermal Transfer Ribbons								
556-00189	556-00189	TTWHITEOUT	4.33 (109.9)	984 (300)	White Ribbon on 1"Core, Coated Side Out	White	EA	1
556-00190	556-00190	TTWHITEOUTSM	4.33 (109.9)	250 (76)	White Ribbon on ½" Core, Coated Side Out	White	EA	1
556-00101	TT822OUT	TT822	4.33 (109.9)	984 (300)	Black Ribbon for TT1000 & TT1210	Black	EA	1

Use Part No. for ordering and Type for specification.

Solar Sample Package

Get a sample of all HellermannTyton's key solar products by requesting **SPLSOLAR** when contacting customer service at 800.537.1512. Product samples include:

- Edge Clip UV Cable Tie Assembly
- Edge Cable Clip
- Omega Clip Assembly
- C Clip Assembly
- UV Cable Tie
- UV Double-Head Cable Tie
- UV Mounting Base
- Vinyl Self-Laminating Adhesive Label
- Foam Nameplate Label

TagPrint™ Pro

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

Product Selection

Article No.	Part No.	Type	Pkg. Qty
556-00022	556-00022	TAGPRINTPRO Version 2.0 - Full	1

Use Part No. for ordering and Type for specification.

TTM430 Thermal Transfer Printer

HellermannTyton's TTM430 thermal transfer printer is designed for medium-to-high volume users of thermal transfer labels and ShrinkTrak. Its user-friendly design features a streamlined menu for simple navigation, while its built-in caddy allows even the largest label rolls to fit inside the printer. The optional cutter can cut through the thickest material. The 300 dpi print head provides the highest quality printing. The TTM430 is designed to handle all sizes of HellermannTyton's ShrinkTrak markers, and the TTM430 can print on even the smallest labels.

Product Selection

Article No.	Part No.	Type	Description	Pkg. Qty
556-00430	556-00430	TTM430	TTM430 Printer	1
556-00101	TT822OUT	TT822	Black Ribbon	1

Use Part No. for ordering and Type for specification.

SwiftMark

The SwiftMark automatic label printer and applicator prints self-laminating labels and applies them to various diameters of wire and cable. UL recognized labels, that are designed for indoor and outdoor use, can be printed and applied to cables in just over four seconds each. They can be applied to the wire and cable used in control panels and wire harness sets. The SwiftMark reduces labeling errors, increases quality, speeds production, and reduces labor by up to 300 percent over manually applied labels.

TT230SM Thermal Transfer Printer

HellermannTyton's TT230SM thermal transfer printer is the next generation of printer available for small-to-medium volume users looking for an easy to use and functional thermal transfer printer. The TT230SM prints to a wide variety of materials including all of HellermannTyton's foam nameplate and vinyl labels. The TT230SM also is Ethernet network ready, which gives the user the option of placing the unit away from the host computer. The TT230SM comes with a label holder (caddy) for loading large reels behind the printer for easy dispensing and printing. There also is an optional carrying case that can be used to safely transport the printer to solar installation sites.

Labels

HellermannTyton provides a wide range of industrial strength labels that are suitable for many applications in the solar energy market. Labels are UL recognized and can withstand outdoor exposure for years without fading or peeling. Labels can be used on solar panels, supporting hardware, control panels, wires and cables, and just about anything requiring a high-performance label. HellermannTyton also provides printers and software that make label creation easy and cost effective.

Go to www.hellermann.tyton.com for more product information

Wiring Duct

Solid wall Pro-Duct wiring duct is designed for straight wire runs where breakouts are not required. Slotted and slotted high-density wall Pro-Duct features breakaway 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".

Braided Sleeving

Braided Sleeving offers flexible cable protection, resistance from abrasion, and ease of application. The sleeving is specially woven to expand when compressed and contract when pulled apart. To receive optimal fit, HellermannTyton's braided sleeving accommodates a variety of cable diameters and is available in different materials to perform in moderate to extreme environments.

Spiralwrap

Spiralwrap provides necessary cable routing and protection when flexibility around corners and bends is desirable. Spiralwrap is a protective sheath which is wrapped around a group of cables to shield, organize, and control it. It also is used to protect edges of components during the manufacturing process. Offered in many sizes and colors, Spiralwrap is very flexible and adaptable to most environments. UL recognized, HellermannTyton's Spiral-wrap is reusable and resistant to most chemicals.

Heat Shrink Tubing

Heat shrink tubing is used to insulate and protect splices and connections to power cables in the solar industry. HellermannTyton provides adhesive lined medium and heavy wall tubing. When applied, the adhesive melts and flows to form a water tight seal that protects the splice or connection for years above or below ground. Many heat shrink tubing styles and types are available for the common applications found in the manufacture and service of solar energy equipment.

Located in over 30 countries, HellermannTyton brings the best to its customers through global resources channeled to local implementations. Flexibility, agility, and ability to create value-added, market driven solutions are the hallmarks of every HellermannTyton company across the world.

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Warranty Policy

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

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