

HellermannTyton



Reliable cable management solutions for solar plants

MADE FOR REAL®



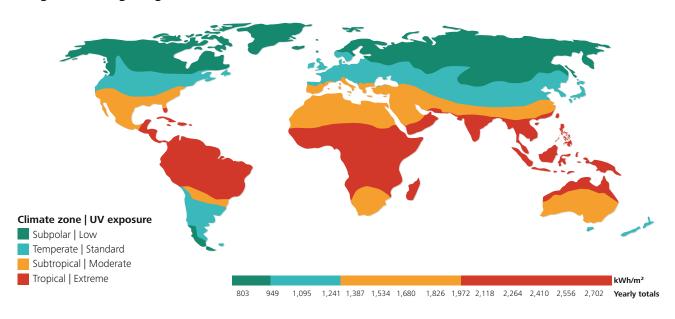
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Climate considerations

Selecting the right cable management solution for solar installations depends on the climate and local environmental conditions specific to the region where the plant will reside. The boundaries between climate zones are dynamic and can vary tremendously according to regional topography and specific local climatic influences.

Long-term average of global UV horizontal irradiation (GHI)



Humidity, salt in the air and altitude all affect the performance of materials. Our product engineers are ready to advise you on the best combination for your local requirements.

Part design considerations

Even the best-made clips, mounts and ties in the world will fail prematurely if they don't fit the requirements of the application. Take frame holes, they are one of the most common points where fasteners fail. The holes' sharp edges slice away at plastic parts that move with the wind and expand during the daytime heat.

Trackers and floating PV only exacerbate the problem. Poor cable management choices at the outset can lead to severe, long-term issues over the lifetime of a solar plant.

The hidden costs of poor cable management are several times greater than the cost of doing it right from the start.

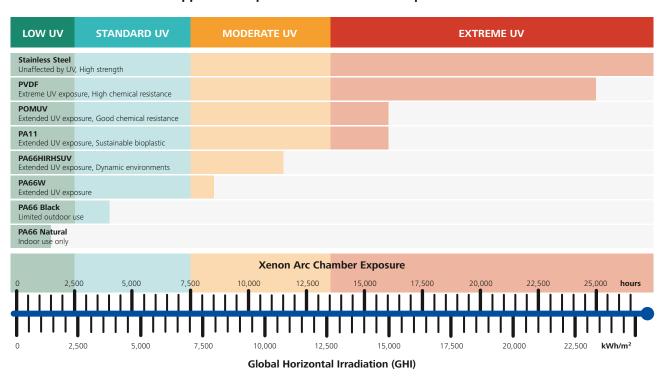


Material considerations

Depending where in the world our products are deployed, we help customers make informed decisions based on environmental factors. Off-the-shelf materials are appropriate for many general-purpose applications, but not in solar. Here, the short-term savings of standard grade materials quickly transform into spiralling maintenance costs. Quality is not everything, but everything without quality is nothing.

That's why HellermannTyton offers cable management products for the solar industry from materials formulated with UV stabilizers, UV absorbers or exceptionally durable base plastics designed for long-term service and extended lifespans.

Plastic materials and their approximate performance under UV exposure.



Depending on your plant design and the expected UV and chemical exposure, we offer part solutions that outperform value-priced products. Even under extreme UV exposure, our new PVDF plastic material provides the most maintenance-free cable management you can get without resorting to stainless steel.

Approximate suitability of materials to climate zones

Product base material	UV irradiation resistance	Humidity tolerance	Temperature range	Climatic zone
PA66W	٥	•	-40 °C to +85 °C, (+105 °C, 500 h)	Subpolar/Temperate
PA66HIRHSUV	00	**	-40 °C to +110 °C	Temperate
PA11	000	♦ ♦ ♦ (~)	-40 °C to +85 °C, (+105 °C, 500 h)	Subtropical
POMUV (Polyacetal)	000	♦ ♦ ♦ ♦ (~)	-40 °C to +90 °C, (+105 °C, 500 h)	Subtropical
PVDF	0000	♦ ♦ ♦ ♦ (~)	-55 °C to +175 °C	Tropical
Stainless steel	0000	♦ ♦ ♦ ♦ (~)	-80 °C to +538 °C	Tropical

(~)Also recommended for floating PV applications

Please note; The above information is provided for information purposes only and is not a substitute for validation tests



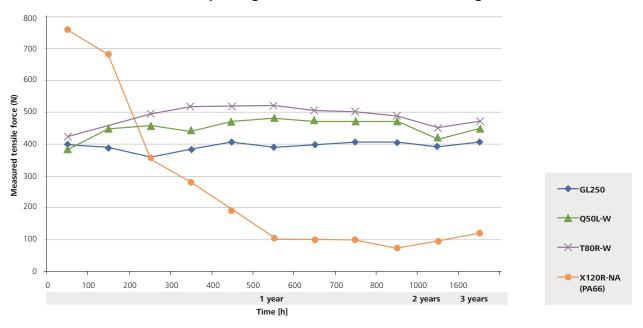
UV stability of HellermannTyton cable ties

How fast or slow do plastic materials degrade under ultraviolet (UV) irradiation? To find out, HellermannTyton commissioned the Fraunhofer Institute for Solar Energy Systems (ISE) to carry out extended UV weathering tests on HellermannTyton cable ties made from plastics with different properties.

Fraunhofer ISE fastened the cable ties under load to metal cylinders and exposed them to 156.78kWh/m² of UV for 1600 hours at controlled intervals. This amount of artificial irradiation complies with the assumption that Central Europe is exposed to natural solar irradiation of 1,000 kWh/m² per year, with about 5% of this being in the damaging UV range. This dose corresponds to approximately three years of Central European natural solar irradiation.

To determine the functional integrity of the cable ties after each UV exposure interval, loop strength tests were performed on specimens according to section 9.5.1 of DIN EN 62275:2010-07.

Mean results of the cable tie loop strength test after artificial UV weathering

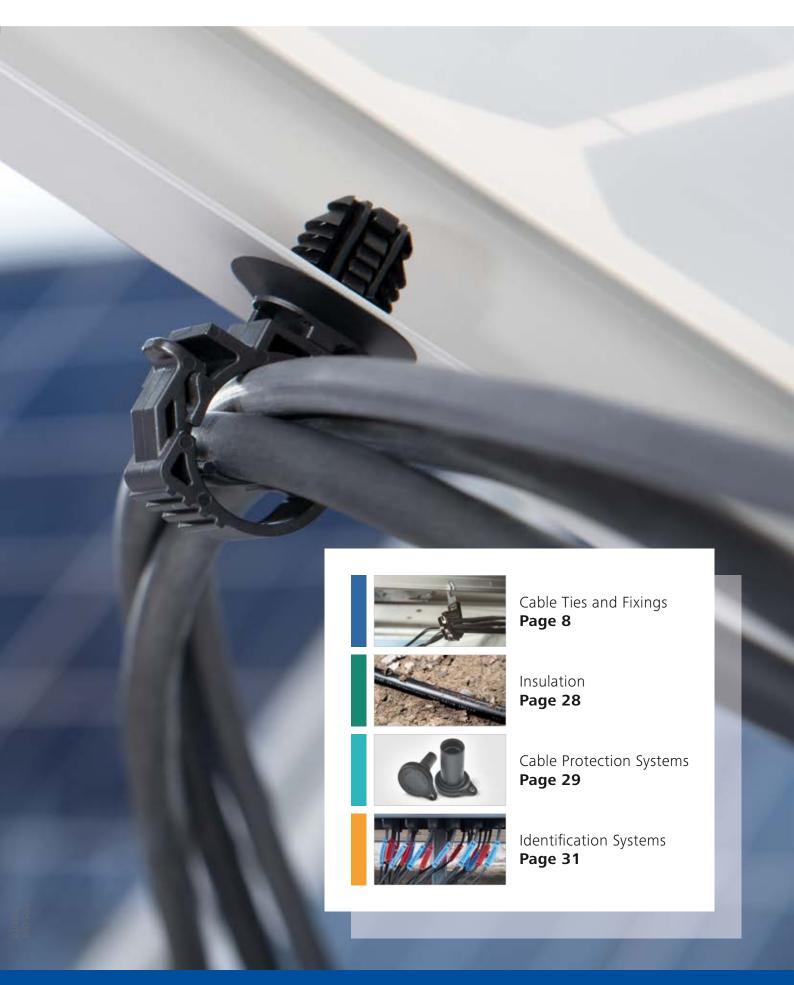


Fraunhofer ISE also collected data for T80R-W cable ties in real-time over three years at two outdoor locations, in south-western Germany and in the Negev Desert, Israel. These real-time findings affirm that the results of the accelerated UV exposure under laboratory conditions are indicative.

Natural-coloured polyamide 6.6 cable ties showed significant UV damage after only 200 hours in the test chamber. The loop tensile strength of this non-UV-stabilised material dropped to less than 50 percent of its initial value. In contrast, the T80R-W ties (UV-stabilised polyamide 6.6) and the GL250 ties (polyamide 11) showed only negligible degradation from UV exposure.

The UV-stabilised polyamide 6.6 material is reliable at this UV exposure. Importantly, 3 years of solar irradiation exposure in the Negev Desert equals approximately 6 years in Central Europe, depending on the specific local conditions. Data from the separate field test on T80R-W cable ties at a Central European location also affirmed this.

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Cable ties, inside serrated

T-Series in PA66W

For the solar industry, HellermannTyton offers a wide range of cable ties made of UV stabilised PA6.6 material. This material provides additional protection against UV radiation for long-term outdoor use in temperate climate zones. This tie is available in various styles, tensile strengths and bundle diameters.

Features and benefits

- UV resistant black cable tie available in a wide range of sizes
- Made from 100% high quality plastic, allows for good recycling
- Inside serration for a strong grip on cables
- Easy application either manually or with a processing tool
- Bent tail makes it easy to insert strap into the tie head



UV-resistant T-Series cable ties (PA66W/UV).

MATERIAL	Polyamide 6.6, UV-resistant (PA66W)
Operating Temperature	-40 °C to +85 °C, (+105 °C, 500 h)
Flammability	UL 94 V2





T-Series

TYPE	Width (W)	Length (L)	Bundle Ø max.	S N	Material	Colour	Pack Cont.	Tools	Article-No.
T18R	2.5	100.0	22.0	80	PA66W	Black (BK)	100 pcs.	2;5-6;25	111-01960
T18L	2.5	205.0	50.0	80	PA66W	Black (BK)	100 pcs.	2;5-6;25	111-02160
T30R	3.5	150.0	35.0	135	PA66W	Black (BK)	100 pcs.	2;5-6;25	111-03260
T80R	4.7	205.0	55.0	355	PA66W	Black (BK)	100 pcs.	2-3;5-6;8;10-12;25	111-05060
T80I	4.7	305.0	85.0	355	PA66W	Black (BK)	100 pcs.	2-3;5-6;8;10-12;25	111-08290
T80L	4.7	390.0	110.0	355	PA66W	Black (BK)	100 pcs.	2-3;5-6;8;10-12;25	111-05460
T150R(H)	7.6	365.0	100.0	670	PA66W	Black (BK)	100 pcs.	3;6;10-12;25	111-14860
T120M	7.6	460.0	125.0	535	PA66W	Black (BK)	100 pcs.	3;6;10-12;25	111-12660
T120L	7.6	760.0	225.0	535	PA66W	Black (BK)	50 pcs.	3;6;10-12;25	111-12430

All dimensions in mm. Subject to technical changes.

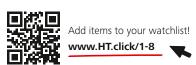
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

Recommend	led Tools							
2	3	5	6	8	10	11	12	25
MK20	MK21	MK3PNSP2	EVO7	MK7P	EVO9	EVO9HT	MK9P	EVOcut

 $For \ detailed \ information \ on \ Application \ Tooling \ please \ refer \ to \ our \ Main \ Catalogue \ or \ the \ Internet.$



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





Cable ties made from sustainable bioplastic

T-Series in PA11 black

What makes this cable tie so different is the high-performance polymer we make it from. Derived from 100% castor oil sources, PA11 is characterised by its extreme resistance to chemicals like zinc chloride as well as UV radiation. It is a popular choice for bundling and fixing of solar cables on galvanised steel sub constructions in coastal areas where chemical corrosion and degradation of conventional polyamide 6.6 materials is rapid.

Due to its low water absorption rate, PA11 is also ideal for floating PV, agrivoltaic and extremely dry climate applications.

Features and benefits

- Made of Polyamide 11 a sustainable bioplastic from castor oil
- Very good UV resistance and durability in outdoor applications
- Stable technical performance even at very low temperatures
- High resistance to chemicals including chlorides
- Low water absorption rate offers consistent technical performance
- Plastic solution adding security for 1500V DC systems



A sustainable T-Series cable tie with high resistance to chemicals and UV light.

MATERIAL	Polyamide 11 (PA11)
Operating Temperature	-40 °C to +85 °C, (+105 °C, 500 h)
Flammability	UL 94 HB





T-Series

TYPE	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Pack Cont.	Tools	Article-No.
T18R	2.5	100.0	22.0	80	PA11	Black (BK)	100 pcs.	2;5-6;25	111-01718
T30R	3.5	150.0	35.0	130	PA11	Black (BK)	100 pcs.	2;5-6;25	111-01719
T50S	4.6	150.0	35.0	170	PA11	Black (BK)	100 pcs.	2-3;5-6;8;10;25	111-01720
T50R	4.6	200.0	50.0	170	PA11	Black (BK)	100 pcs.	2-3;5-6;8;10;25	111-01721
ISUK	4.6	200.0	50.0	225	PA11	Black (BK)	6,000 pcs.	2-3;5-6;8;10;25	111-05007
T50I	4.6	300.0	85.0	225	PA11	Black (BK)	100 pcs.	2-3;5-6;8;10;25	111-02217
T120L	7.6	760.0	225.0	535	PA11	Black (BK)	50 pcs.	3;6;10-12;25	111-12470

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

Recommend	ded Tools							
2	3	5	6	8	10	11	12	25
MK20	MK21	MK3PNSP2	EVO7	MK7P	EVO9	EVO9HT	MK9P	EVOcut

For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.





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Cable ties, inside serrated

T-50R in PVDF, grey

We manufacture this unique cable tie from high grade PVDF material, which has been used in the solar industry for top quality backsheet foils for many centuries. PVDF delivers the highest UV, chemical and thermal resistance of any plastic resin on the market. It performs reliably for 15 years and more and is recommended for use on fixed tilt and tracker installations, floating PV, agrivoltaic and bifacial setups in exposed, high-UV-rated locations in subtropical and tropical climate zones. Application on rounded edges is recommended.

Features and benefits

- Made from PVDF for high UV, chemical and thermal resistance
- Does not need carbon black for UV protection, coloured in grey
- No water absorption, suitable for dry and humid applications
- Plastic solution adding security for 1500V DC systems



The PVDF tie is coloured grey in order to visibly distinguish it easily from other

MATERIAL	Polyvinylidene Fluoride (PVDF)
Operating Temperature	-40 °C to +140 °C
Flammability	UL 94 V0





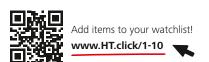
T-Series

TYPE	Width (W)	Length (L)	Bundle Ø max.	N N	Material	Colour	Pack Cont.	Tools	Article-No.
T50R	4.7	200.0	50.0	225	PVDF	Grey (GY)	100 pcs.	2-3;5-6;8;10;25	111-02390
ISUK	4.7	200.0	50.0	225	PVDF	Grey (GY)	3,000 pcs.	2-3;5-6;8;10;25	111-02447

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

Recommend	led Tools					
2	3	5	6	8	10	25
MK20	MK21	MK3PNSP2	EVO7	MK7P	EVO9	EVOcut







Cable ties with low profile head, outside-serrated

Robusto-Series

The flat head and wide strap design of the Robusto-Series differs from the classic cable tie design, making it the perfect choice for dynamic bundling applications such as trackers and floating PV installations. The PA11 material offers excellent resistance to UV radiation and chemicals in the most challenging environments

Features and benefits

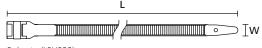
- Made of Polyamide 11, a sustainable bioplastic from castor oil
- Outside-serrated strap and rounded head design protect bundle
- High tensile strength with a single- or a double-bridged head
- · Soft material for easy handling without damaging the bundle
- Very good UV resistance and durability in outdoor applications
- Stable technical performance even at very low temperatures
- · Low water absorption rate and high durability
- Pre-locking possible by pushing the strap through the eyelet
- Plastic solution adding security for 1500V DC systems



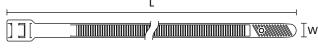
Flat head cable tie from sustainable bioplastic, Robusto-Series.

MATERIAL	Polyamide 11 (PA11)
Operating Temperature	-40 °C to +85 °C
Flammability	UL 94 HB

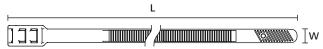




Robusto (LPH922)



Robusto (LPH942)



Robusto	(LPH962,	LPH992

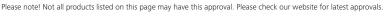
ТҮРЕ	Width (W)	Length (L)	Bundle Ø max.	S N	Material	Colour	Pack Cont.	Tools	Article-No.
Robusto (LPH922)	9.0	123.0	22.0	310	PA11	Black (BK)	100 pcs.	1;10-12	112-00025
Robusto (LPH942)	9.0	180.0	42.0	360	PA11	Black (BK)	100 pcs.	1;10-12	112-00011
Robusto (LPH962)	9.0	260.0	62.0	530	PA11	Black (BK)	100 pcs.	1;10-12	112-00012
Robusto (LPH992)	9.0	355.0	92.0	530	PA11	Black (BK)	100 pcs.	1;10-12	112-00013

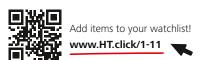
All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

Recommended Tools									
1	10	11	12						
MK10-SB	EVO9	EVO9HT	MK9P						









Cable ties with ball-lock

MBT-Series, stainless steel 304

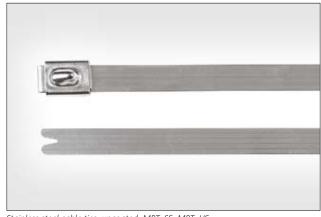
Metal ties are ideal for all applications that require extra strength, long-term weathering reliability and fire resistance. Stainless steel MBT ties secure cables, poles and pipes in harsh environments and are appropriate for indoor, outdoor and underground uses.

Features and benefits

- · Non-releasable locking feature
- · Corrosion resistant
- · Weather resistant
- Outstanding chemical resistance
- High temperature resistant
- Non-burning



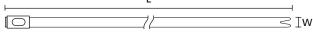
For hard, smooth surface applications, we recommend the use of our LFPC protective channels.



Stainless steel cable ties, uncoated, MBT_SS, MBT_HS.

MATERIAL	Stainless Steel (SS304)			
Operating Temperature	-80 °C to +538 °C			
Flammability	Non burning			





MBT-Series 4.6 mm and 7.9 mm width

TYPE	Width (W)	Length (L)	Bundle Ø min.	Bundle Ø max.	N N	Material	Pack Cont.	Tools	Article-No.
MBT8SS	4.6	201.0	17.0	50.0	900	SS304	100 pcs.	15-18	111-93088
MBT14SS	4.6	362.0	17.0	102.0	900	SS304	100 pcs.	15-18	111-93148
MBT20SS	4.6	521.0	17.0	152.0	900	SS304	100 pcs.	15-18	111-93208
MBT27SS	4.6	685.0	17.0	203.0	900	SS304	100 pcs.	15-18	111-93278
MBT14HS	7.9	362.0	17.0	102.0	2,000	SS304	50 pcs.	15-18	111-94148
MBT20HS	7.9	521.0	17.0	152.0	2,000	SS304	50 pcs.	15-18	111-94208
MBT27HS	7.9	685.0	17.0	203.0	2,000	SS304	50 pcs.	15-18	111-94278
МВТЗЗНS	7.9	838.0	17.0	254.0	2,000	SS304	50 pcs.	15-18	111-94338

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

Recommend	Recommended Tools									
15	16	17	18							
MK9SST	MK9PSST	HDT16	KST-STG200							







Cable ties with fixing element for round holes

FT6 Fir Tree Parts

Cable ties with fir tree mounts feature low insertion force and a high extraction force, without the need for screws or rivets. Manufactured from impact-modified and heat stabilised Polyamide 6.6 material, they offer increased flexibility, heat resistance and UV stability.

Features and benefits

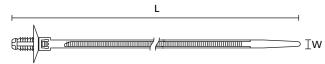
- · Cable tie head always situated in a defined position
- Easy to assemble without the need for tools
- Integrated disc compensates for pressure from any direction and minimises dust and dirt ingress
- Fir tree foot part can be used on a variety of panel thicknesses
- · Suitable for use within threaded holes
- Plastic solution adding security for 1500V DC systems



Fir tree foot parts can be used on a variety of panel thicknesses.

MATERIAL	Polyamide 6.6, high impact modified, heat and UV-stabilised (PA66HIRHSUV)
Operating Temperature	-40 °C to +105 °C, (+105 °C for 500 h)
Flammability	UL 94 HB





One piece fixing tie with fir tree mount, standard design

ТҮРЕ	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	(Z)	Disc Ø	Material	Colour	Article-No.
T50SOSFT6.5LG-E4X		6,3 - 7,0	0.7 - 7.0	4.6	165.0	35.0	225	16,0	PA66HIRHSUV	Black (BK)	157-00302



Cable tie with fixing element for round holes and stand-off

First Solar Series 6 Solar Fir Tree Fasteners

The Series 6 Solar Fir Tree Fastener is the easiest and fastest wire management solution on the market. It features a head design specifically tailored to First Solar Series 6 Modules. The entire fir tree passes through the wire management hole to prevent unintended disengagement. The unique barrel head rests on the module lip to relieve downward forces on the fir tree. Stand-off keeps bundles the perfect distance from mounting hole, allowing non-destructive movement due to wind or tracker motion. The bent tail design allows quick and simple installation by hand.

Features and benefits

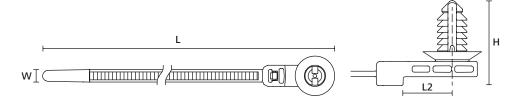
- HIRHSUV solar fasteners provide excellent durability in UV-, chemicaland moisture-sensitive environments
- Can be pre-installed while modules are still on the pallet
- · Barrel and offset head design reduce potential for abrasion and wear
- · Design vetted and recommended by First Solar
- Plastic solution adding security for 1500V DC systems



Utilising the First Solar Series 6 wire management hole for module-to-module wire

MATERIAL	Polyamide 6.6, high impact modified, heat and UV-stabilised (PA66HIRHSUV)
Operating Temperature	-40 °C to +105 °C, (+105 °C for 500 h)
Flammability	UL 94 HB



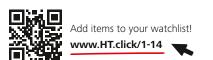


TYPE	Drawing	Hole Ø (FH)	Panel Thickness		Length (L)	Length (L2)	K Z	Material	Colour	Tools	Article-No.
T50ROSFT5.6SO25R		5,6	3.0 - 4.3	5.1	203.2	25.0	225	PA66HIRHSUV	Black (BK)	2-3;5- 6;8;10	157-00421

All dimensions in mm. Subject to technical changes.

Recommend	Recommended Tools									
2	3	5	6	8	10					
MK20	MK21	MK3PNSP2	EVO7	MK7P	EVO9					

 $\label{thm:condition} For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.$





Push button mount for holes, with cable tie T50RPBM9

This button head mount includes a T50R tie in a kit to secure cables and wire bundles on solar modules and mounting structures. The mount conveniently fits existing oval (9x14mm) and round holes (9-12mm) with zero insertion force. Made from impact-modified, heat-resistant, UV-stabilised polyamide 6.6, which 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

- High-impact-modified, heat-resistant, UV-stabilised material is ideal for long-term performance in extreme weather
- Capable of holding several cables, depending on cable tie size used, for ultimate flexibility
- Zero-insertion-force design requires no tools for quick and easy mounting to most solar modules
- · Withstands tracker movement to prevent chafing of wires
- Plastic solution adding security for 1500V DC systems



Tracker movements are no longer an issue with the PBM9 kit.

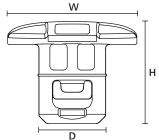
MATERIAL	Polyamide 6.6, high impact modified, heat and UV-stabilised (PA66HIRHSUV)
Operating Temperature	-40 °C to +105 °C, (+105 °C for 500 h)
Flammability	UL 94 HB





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Cable Tie T50RPMB9 (Set)



Button Mount T50RPM9 (Set)

TYPE	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Height (H)	Bundle Ø max.	SN N	Material	Colour	Pack Cont.	Article-No.
TEODDOMOCET	9,0 x 12,0, 9,0 x 14,0	3.0	17.0	203.2	13.4	50.0	225	PA66HIRHSUV	Black (BK)	500 pcs.	156-02512
T50RPBM9SET	9,0 x 12,0, 9,0 x 14,0	3.0	17.0	203.2	13.4	50.0	225	PA66HIRHSUV	Black (BK)	1,000 pcs.	156-02513

All dimensions in mm. Subject to technical changes.



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Fixing element for oval and round holes

Locking clamps, LOC-Series

LOC is ideal for fastening wire and cable bundles to solar panels. The uniquely engineered fir tree holds tightly in most oval or round pre-stamped module holes. Depending on the version, the locking clamp mechanism dynamically fits up to four DC cables (4-6 mm²), while an optional cable saddle allows installers to add additional cable runs. We manufacture the clamp from impact-modified Polyamide 6.6 for increased flexibility, heat resistance and UV stability. This material delivers years of dependable performance. LOC is easy to install with a single hand without the need for tools, saving time and labour costs.

Features and benefits

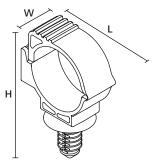
- Releasable clamp mechanism allows for easy, one-handed maintenance without having to remove the mount
- Low-insertion, high-extraction fir tree foot part compatible with a wide range of solar modules
- Impact-modified, heat-resistant, UV-stabilised material ideal for longterm performance in extreme weather, even on trackers
- Plastic solution adding security for 1500V DC systems



Time saving with LOC-Series cable management.

MATERIAL	Polyamide 6.6, high impact modified, heat and UV-stabilised (PA66HIRHSUV)
Operating Temperature	-40 °C to +105 °C, (+105 °C for 500 h)
Flammability	UL 94 HB





Reference drawing for dimensions only.

TYPE	Drawing	Width (W)	Length (L)	Height (H)	Hole Ø (FH)	Panel Thickness	Bundle Ø max.	Material	Colour	Article-No.
LOC1014FT9x12		12.0	35.0	58.8	9,0 x 12,0, 9,0 x 14,0	0.6 - 6.8	14.0	PA66HIRHSUV	BK	151-02218
LOC1014F19X12		12.0	35.0	58.8	9,0 x 12,0, 9,0 x 14,0	0.6 - 6.8	14.0	PA66HIRHSUV	BK	151-02501
LOC5-9FT6LG		12.0	23.7	37.1	6,35 (hexagonal), 6,1 - 6,9	0.6 - 8.3	9.0	PA66HIRHSUV	BK	151-01017
LOC10-14FT6LG		12.0	27.6	41.7	6,35 (hexagonal), 6,1 - 6,9	0.6 - 8.3	14.0	PA66HIRHSUV	BK	151-01166

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All dimensions in mm. Subject to technical changes.







HellermannTyton



Fastener for round holes

Solar clip, SC-Series

The SC6.6 Clip with fir tree mount is ideal for panels and substructures with pre-drilled holes. Easy installation by hand eliminates the need for any tools. Once installed, 4-6 mm² cables simply snap into the clip. The cable can be removed and reinstalled without removing the clip. Made from PA66HIRHSUV material, the SC6.6 provides increased flexibility along with heat resistance and UV stability.

Features and benefits

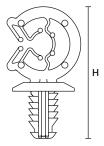
- Easy to install without the need for tools
- Suitable for post-installation of bundles
- Easy replacement of bundles in the event of maintenance
- Fir tree foot part can be used on a variety of panel thicknesses
- Plastic solution adding security for 1500V DC systems



The SC6.6 for solar cables is ideal for quick installation and easy maintenance.

MATERIAL	Polyamide 6.6, high impact modified, heat and UV-stabilised (PA66HIRHSUV)
Operating Temperature	-40 °C to +105 °C, (+105 °C for 500 h)
Flammability	UL 94 HB





Solar clip, SC-Series

TYPE	Drawing	Width (W)	Height (H)	Bundle Ø max.	Hole Ø (FH)	Panel Thickness	Material	Colour	Article-No.
SC6.6		18.3	33.4	7.6	6,6	0.7 - 6.4	PA66HIRHSUV	Black (BK)	151-00927



Fixing base

LOK-Series

Intended for rooftop solar installations, the LOK mounts secures inverter feed and homerun cables on a wide range of materials, especially brickwork. In conjunction with a suitable cable tie, it can be used either indoors or outdoors.

Features and benefits

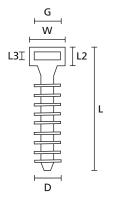
- Usable with any cable ties up to 9 mm width
- Suitable for use with a wide range of materials, including concrete, brick, block and wood
- Installed by knocking into 7 mm or 8 mm diameter hole
- Eliminates the need for pipes and cable ducts on walls
- Made of polyamide 11, a sustainable and highly UV-resistant bioplastic



LOK01 fixing bases for indoor and outdoor use.

MATERIAL	Polyamide 11 (PA11)
Operating Temperature	-40 °C to +85 °C
Flammability	UL 94 HB





LOK01 fixing base (front view)

TYPE	Width (W)	Length (L)	Length (L2)	Length (L3)	Ø (D)	Strap Width max. (G)	Hole Ø (FH)	Material	Colour	Article-No.
		1								

All dimensions in mm. Subject to technical changes.

HellermannTyton

Harness clip for screws or threaded bolts, with cable tie

Standard torque mounts

Solar substructures such as fixed tilt and trackers employ a wide range of bolts, which can also be used for cable management solutions. Utilise these existing bolts with our heavy duty torque mounts (HDM-Series).

Features and benefits

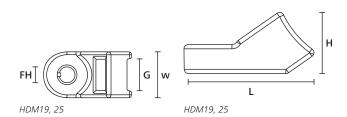
- Design offers secure alignment to the bundle
- Possible replacement of cushion clamps and/or metal clamps
- Eliminates the need for multiple sizes of fixed diameter clamps
- For cable ties up to 12.7 mm width
- Easy maintenance of bundle by simply changing the cable tie
- Plastic solution adding security for 1500V DC systems



Heavy Duty Mounts HDM-Series, patent number US5820083.

MATERIAL	Polyamide 6.6, high impact modified, heat and UV-stabilised (PA66HIRHSUV)
Operating Temperature	-40 °C to +105 °C, (+105 °C for 500 h)
Flammability	UL 94 HB





TYPE	Drawing	Width (W)	Length (L)	Height (H)	Hole Ø (FH)	Strap Width max. (G)	Material	Colour	Pack Cont.	Article-No.
HDM19		19.3	36.3	16.7	4,7	12.7	PA66HIRHSUV	Black (BK)	100 pcs.	151-00134
HDM25		19.3	36.3	16.7	6,2	12.7	PA66HIRHSUV	Black (BK)	100 pcs.	151-00437

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



Ratcheting clamp, bolt fixing

Ratchet P-Clamp

The Ratchet P-Clamp series is ideal for cable and hose management in solar installations. Proven applications include end-of-row arrests toward the fixed post and managing wire in transitions on tracker and fixed tilt installations. The unique single-piece adjustable clamp can be closed by hand to the required diameter. The release feature allows for easy and non-destructive removal of cables with the aid of a flat-head screwdriver. The Ratchet P-Clamp is available in multiple sizes and multiple mounting angles. Configurations include bolt fixing diameters from M6 to M12 and stainless steel metal plates.

Features and benefits

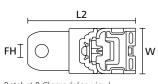
- Ratchet P-Clamp for bundle diameters ranging from 6.2 up to 51.0 mm (divided into 4 sizes)
- One-piece ratchet closure design allows for easy installation during pre- or final assembly
- Multiple configurations cover a wide range of diameters and application configurations, significantly reducing part inventory
- Clamp interior is designed to guide and centre bundle to reduce pinching
- Easy release feature allows for quick adjustment and maintenance
- Impact-modified, heat- and UV-stabilised PA66 provides long-term durability, in- and outdoors
- Steel mounting plate accommodates high torque and is treated to resist chemicals and salt spray. Available also in stainless steel grade
- Plastic solution adding security for 1500V DC systems

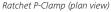


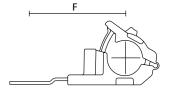
Managing wire in transition on a tracker installation.

MATERIAL	Polyamide 6.6, high impact modified, heat and UV-stabilised (PA66HIRHSUV), Steel (ST), Zinc plated (ZN)
Operating Temperature	-40 °C to +105 °C, (+105 °C for 500 h)
Flammability	UL 94 HB



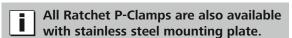






Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

Ratchet P-Clamp (side view)



TYPE	Drawing	Width (W)	Length (L2)	Bundle Ø min.	Bundle Ø max.	Hole Ø (FH)	Fixing Hole Centres (F)	Variant	Material	Colour	Article- No.
RCB180SM10		34.9	83.1	12.7	19.5	10,29	52.8	Short	PA66HIRHSUV, ST, ZN	Black (BK)	151-01390
RCC180SM10		34.9	103.0	19.4	36.0	10,29	62.3	Short	PA66HIRHSUV, ST, ZN	Black (BK)	151-01475
RCD180SM10		34.9	115.5	36.0	51.0	10,29	70.0	Short	PA66HIRHSUV, ST, ZN	Black (BK)	151-01501
RCB90SM10	<i>A</i>	34.9	68.8	12.7	19.5	10,29	26.7	Short	PA66HIRHSUV, ST, ZN	Black (BK)	151-01458
RCD90SM10		34.9	88.7	36.0	51.0	10,29	42.4	Short	PA66HIRHSUV, ST, ZN	Black (BK)	151-01519
RCC90SM10		34.9	101.2	19.4	36.0	10,29	39.9	Short	PA66HIRHSUV, ST, ZN	Black (BK)	151-01493









Edge fastening cable ties, 1-piece

EdgeClip-Series, 1.0 - 3.0 mm

Cable ties with EdgeClips are ideal where holes are not acceptable and there is no other way to route cables along an edge. This is often the case when connected module leads are too short to be fixed to substructures. Another common scenario is keeping solar cables out of substructure metallic ducts or away from roof surfaces that can be flooded with water, causing inverter faults over time. The EdgeClip can be easily pushed onto the edge by hand without any tools. The integrated metal clamp delivers reliably high extraction force. EdgeClips are available as one- or two-piece parts with a pre-installed cable tie. Both cable tie and EdgeClip housing are manufactured of UV-stabilised PA6.6 specifically suitable for PV applications in temperate climate zones

Features and benefits

- Easy installation, just push on by hand
- For edge thickness of 1 3 mm, 3 6 mm, 4 6 mm or 6 8 mm
- Avoids long term issues with flooded cabling and connectors
- Plastic solution adding security for 1500V DC systems



1-Piece Fixing Tie T50SOSEC12E can be pushed easily on edges.

MATERIAL	Polyamide 6.6, UV-resistant (PA66W)
Operating Temperature	-40 °C to +85 °C, (+105 °C, 500 h)
Flammability	UL 94 V2





TYPE	Drawing	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	(Z)	Material	Colour	Tools	Article-No.
T50SOSEC12E		1.0 - 3.0	4.6	160.0	35.0	180	PA66W	Black (BK)	2-3;5-6;8;10	126-00374
T50SOSEC13E		1.0 - 3.0	4.6	160.0	35.0	180	PA66W	Black (BK)	2-3;5-6;8;10	126-00373
T50SOSEC34E		1.0 - 3.0	4.6	155.0	35.0	180	PA66W	Black (BK)	2-3;5-6;8;10	126-00375

All dimensions in mm. Subject to technical changes.

Recommend	led Tools				
2	3	5	6	8	10
MK20	MK21	MK3PNSP2	EVO7	MK7P	EVO9





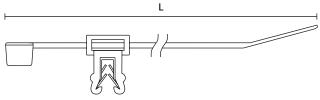
Edge fastening cable ties, 2-piece

Features and benefits

- Easy installation, just push on by hand
- For edge thickness of 1 3 mm
- Avoids long term issues with flooded cabling and connectors
- Plastic solution adding security for 1500V DC systems
- Pre-assembled fixing tie with EdgeClip
- · Cable tie head can be moved after bundling



Easy module level cable management along an edge.



Fixing Tie with EC4

MATERIAL	Polyamide 6.6, UV-resistant (PA66W)
Operating Temperature	-40 °C to +85 °C, (+105 °C, 500 h)
Flammability	UL 94 V2



EdgeClip-Series, 1.0 - 3.0 mm, top fixing

TYPE	Drawing	Width (W)	Length (L)	Bundle Ø max.	S N	Material	Colour	Tools	Article-No.
T50ROSEC4A		4.6	200.0	45.0	225	PA66W	Black (BK)	2-3;5-6;8;10	156-00570
T50ROSEC4B		4.6	200.0	45.0	225	PA66W	Black (BK)	2-3;5-6;8;10	156-01154

All dimensions in mm. Subject to technical changes.

EdgeClip-Series, 1.0 - 3.0 mm, side fixing

TYPE	Drawing	Width (W)	Length (L)	Bundle Ø max.	S N	Material	Colour	Tools	Article-No.
T50ROSEC5A		4.6	200.0	45.0	225	PA66W	Black (BK)	2-3;5-6;8;10	156-00661
T50ROSEC5B		4.6	200.0	45.0	225	PA66W	Black (BK)	2-3;5-6;8;10	156-00698

All dimensions in mm. Subject to technical changes.

Recommend	led Tools				
2	3	5	6	8	10
MK20	MK21	MK3PNSP2	EVO7	MK7P	EVO9





Edge fastening cable ties, 2-piece

EdgeClip-Series, 3.0 - 6.0 mm, side fixing

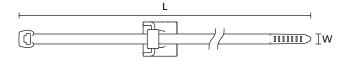
Features and benefits

- Easy installation, just push on by hand
- For edge thickness of 3 6 mm
- Avoids long term issues with flooded cabling and connectors
- Plastic solution adding security for 1500V DC systems
- Pre-assembled fixing tie with EdgeClip
- Cable tie head can be moved after bundling



Easy module level cable management along a metal edge.

Please note: Visual representations of EdgeClip parts in application do not replace the need for precise engineering calculation of the expected forces in your individual installation. Failure to do so, or incorrect installation, can produce unnecessary risk of damage and fatality that HellermannTyton cannot be liable for. HellermannTyton product experts are available to advise you on the suitability of your intended use of EdgeClips on specific materials.



TYPE	Drawing	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T50ROSEC23		4.6	200.0	45.0	225	PA66W	Black (BK)	2-3;5-6;8;10	156-00843

All dimensions in mm. Subject to technical changes.

Recommend	led Tools				
2	3	5	6	8	10
MK20	MK21	MK3PNSP2	EVO7	MK7P	EVO9



Edge fasteners

The MSC-Series provides an excellent alternative to managing wire and PV cables where plastic fasteners are not the preferred method, for extreme in subtropical and tropical climate zones and floating PV applications. Designed for effortless insertion, this stainless steel EdgeClip has a high extraction force that tolerates extreme environments and provides assurance that the cables are securely affixed to a panel or substructure.

Features and benefits

- Integrated design allows for easy insertion by hand
- Rounded edges protect the cable insulation from damage
- Double-compression design that accommodates up to two cables and various sizes (4-6 mm²)
- High extraction force for withstanding extreme conditions
- Made from SS304 stainless steel

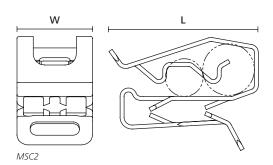


Double-compression design can accommodate up to 2 wires or cables of varying sizes.

MATERIAL	Stainless Steel (SS304)				
Operating Temperature	-80 °C to +538 °C				
Flammability	Non burning				



Metal solar clips, MSC-Series, heavy duty



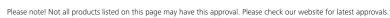
TYPE	Panel Thickness	Cable Ø min	Cable Ø max	Width (W)	Length (L)	Bundle Ø max.	Material	Colour	Pack Cont.	Article-No.
MSC2	1.0 - 3.0	5.0	7.6	13.0	24.1	7.6	SS304	Metal (ML)	100 pcs.	151-00982
IVISC2	1.0 - 3.0	5.0	7.6	13.0	24.1	7.6	SS304	Metal (ML)	5,000 pcs.	151-02320

All dimensions in mm. Subject to technical changes.



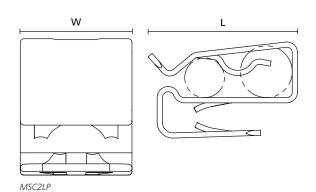
HellermannTyton







Metal solar clips, MSC-Series, low profile



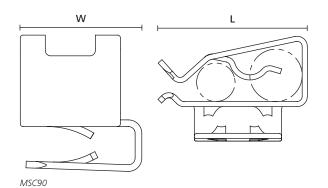


MSC2LP for low profiles are managing PV cables where plastic fasteners are not the preferred method.

TYPE	Panel Thickness	Cable Ø min	Cable Ø max	Width (W)	Length (L)	Bundle Ø max.	Material	Colour	Pack Cont.	Article-No.
MSC2LP1	0.8 - 1.3	4.1	7.0	10.3	18.1	7.0	SS304	Metal (ML)	5,000 pcs.	151-03155
MCCOLD	1.5 - 2.0	4.1	7.0	9.5	17.0	7.0	SS304	Metal (ML)	100 pcs.	151-01699
MSC2LP	1.5 - 2.0	4.1	7.0	9.5	17.0	7.0	SS304	Metal (ML)	5,000 pcs.	151-02436

All dimensions in mm. Subject to technical changes.

Metal solar clips, MSC-Series, 90 degree





90-degree metal edge clip

TYPE	Panel Thickness	Cable Ø min	Cable Ø max	Width (W)	Length (L)	Bundle Ø max.	Material	Colour	Pack Cont.	Article-No.
MSC901	0.8 - 1.2	4.1	7.39	11.6	18.4	7.4	SS304	Metal (ML)	100 pcs.	151-02569
IVISCOUT	0.8 - 1.2	4.1	7.39	11.6	18.4	7.4	SS304	Metal (ML)	5,000 pcs.	151-02570
MSC90	1.5 - 2.0	4.1	7.0	11.6	18.4	7.0	SS304	Metal (ML)	100 pcs.	151-02189
MISCAO	1.5 - 2.0	4.1	7.0	11.6	18.4	7.0	SS304	Metal (ML)	5,000 pcs.	151-02291











Spacer ties for row-to-row routing

Aerial support ties, TAS-Series

Aerial support ties fix cables to the messenger wire setup often used for solar row-to-row transitions above the ground. The one-piece design, featuring a spacer and strap with bent tail, simplifies use and reduces installation time as well as inventory costs. Outside serrations along the strap prevent damage to sensitive cables. The PA66HIRHSUV material is well suited for long-term, outdoor use.

Features and benefits

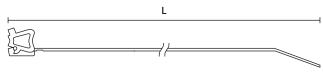
- UV resistant, heat-stabilised and impact-resistant PA66 material delivers excellent performance outdoors
- · One-piece design reduces installation time
- Better protection of cables compared to hanger solutions when grazing is allowed in the solar park
- Plastic delivers robust performance at lower cost than metal fasteners
- Plastic solution adding security for 1500V DC systems



Spacer ties enables proper row-to-row cable management above the ground.

MATERIAL	Polyamide 6.6, high impact modified, heat and UV-stabilised (PA66HIRHSUV)					
Operating Temperature	-40 °C to +105 °C, (+105 °C for 500 h)					
Flammability	UL 94 HB					





TAS-series

TYPE	Width (W)	Length (L)	Bundle Ø max.	Z	Material	Colour	Article-No.
TAS120M	12.7	270.0	70.0	535	PA66HIRHSUV	Black (BK)	111-01671
TAS120L	12.7	420.0	114.0	535	PA66HIRHSUV	Black (BK)	111-01672





Fixing elements for tubes and harnesses

Ratcheting clamp, with hanger

The Series 6 Ratchet P-Clamp Solar Hanger offers one-handed, toolless simplicity and size versatility for managing wires and cables on First Solar modules. The robust design and solar-optimized materials make it ideal for heavy duty, outdoor applications. The one-piece adjustable clamp can be closed by hand to the desired diameter, replacing multiple sizes of fixed diameter fasteners. The integrated release feature enables easy and nondestructive removal of cables by inserting a flat-head screwdriver. This allows the clamp to be reused without removing it.

Features and benefits

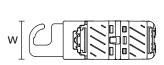
- Impact modified, heat and UV stabilized PA66 provides long-term durability in solar applications
- One-piece ratchet closure design allows for easy installation during pre- or final assembly
- Release feature allows for quick adjustments and maintenance
- First Solar specific steel mounting hanger tolerates high torque and is treated to resist chemicals



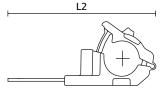
Ratchet P-Clamp Hanger applied to a solar panel.

MATERIAL	Polyamide 6.6, high impact modified, heat and UV-stabilised (PA66HIRHSUV), Zinc plated (ZN)
Operating Temperature	-40 °C to +105 °C, (+105 °C for 500 h)
Flammability	UL 94 HB





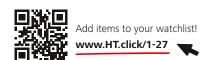
Ratchet P-Clamp hanger, top view



Ratchet P-Clamp hanger, side view

TYPE	Width (W)	Length (L2)	Bundle Ø min.	Bundle Ø max.	Variant	Material	Colour	Article-No.
RCBHANGER	34.9	81.7	12.7	19.5	Short	PA66HIRHSUV, ZN	Black (BK)	151-02875
RCCHANGER	34.9	101.7	19.4	36.0	Short	PA66HIRHSUV, ZN	Black (BK)	151-03057







Heat shrink tubing, medium wall

MA47

MA47 is a medium wall heat shrink tubing with an adhesive lining for use in low voltage solar applications. The thermoplastic adhesive liner provides excellent moisture sealing and insulation protection of cable joints and DC/AC terminations in combiner boxes and inverter arrays. Made of a polyolefin outer material, this tubing has a 4:1 shrink ratio.

Features and benefits

- Medium wall tubing with robust insulation characteristics
- Shrink tubing for cable applications above and below ground
- Protects cable joints and terminations in low voltage applications
- Coated inside with thermoplastic adhesive
- · Protects cables against humidity and environmental damage after shrinking



MA47 for above and below ground

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	up to 4:1
Operating Temperature	-55 °C to +110 °C
Min. Shrink Temperature	+120 °C
Softening Point Adhesive	+85 °C
Longitudinal Change After Shrinkage	-10 % max.
Dielectric Strength	15 kV/mm
Flammability	not flame-retardant
Insulation Class	A (VDE 0530)





Cut lengths available on request. Please contact us!





TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Colour	Tools	Article-No.
MA47-19/6	22.0	6.0	2.40	1.0 m	Black (BK)	30;32	323-20190
MA47-30/8	33.0	8.0	2.60	1.0 m	Black (BK)	30;32	323-20300
MA47-40/12	40.0	12.0	2.60	1.0 m	Black (BK)	30;32	323-20400
MA47-50/16	55.0	16.0	2.70	1.0 m	Black (BK)	30;32	323-20500

All dimensions in mm. Subject to technical changes Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools				
30 32				
H6100	CHG900			

Dust covers

MC4 type-compatible dust covers

Dust covers are used for protecting the male and female pin of the unplugged PV connectors from dust and water ingress. Applications include PV harnesses, combiner box connections, inverter DC array input and DC fed tracker actuators. Field installations also sometimes require temporary protection of connectors in exposed areas, like deserts.

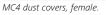
Features and benefits

- Prevents possible damage (such as hot connections) of the connectors
- Compatible with most MC4 type connectors



Prevent connector damage with dust covers MC4.







MC4 dust covers, male.



ТҮРЕ	Material	Colour	Pack Cont.	Article-No.
DCOVERM100	PVC	Black (BK)	100 pcs.	631-00001
DCOVERF100	PVC	Black (BK)	100 pcs.	631-00000



Unistrut cable management

T50RUNICLIP

Cable management can be a challenge on widely used rolled steel Unistrut profiles without slots. This rail cradle solution provides cable management on the back of Unistrut P1000 or P2000 profiles, applying a cable tie onto the saddle. Made of PA66W material suitable for temperate climate zones.

Features and benefits

- · Easy clip-on rail cradle
- Integrated multidirectional cable tie mount insert
- Designed for cable ties up to 5mm width



T50RUNICLIP to clip around the solid side of Unistrut profiles.

ТҮРЕ	Length (L)	Width (W)	Material	Article-No.
T50RUNICLIP	42.0	42.0	PA66W	911-01992

All dimensions in mm. Subject to technical changes.

Electrical cabinet spacer

DIN rail spacer

With the emerge of 1500V systems and ongoing transition to smaller string combiner boxes, the DIN rail spacer ensures the proper distances for safe and effective wiring.

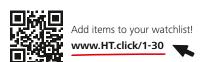
Features and benefits

- Used to raise DIN rails to allow for general wiring under the DIN rail $\,$
- Unique perfect-fit design to bottom profile of standard DIN rail
- Star design allows screw to earth both DIN rail and back plate



Effective cable wiring with DIN rail spacer.

ТҮРЕ	Length (L)	Width (W)	Height (H)	Material	Article-No.
TS35DINSPACER	31.5	25.0	15.0	PP	911-01969







Identification tags for cable bundle, thermal transfer TIPTAG PU - UV-stabilised Tiptags, Polyurethane

The Tiptag PU cable markers consist of a robust and flexible polyurethane material. It is especially suited for harsh environments where the material is exposed to chemical, fluids or abrasion. Tiptag PU's are presented in a special perforated format which include fastening slots for easy fitting with cable ties. They are also suitable for retrofit purposes.

Print from the reel with HellermannTyton's premium range of thermal transfer printers.

A special ribbon has been developed for Tiptag PU to create a "tattoo" effect so that the marking cannot be rubbed off and is particularly durable and resistant to harsh abrasion.



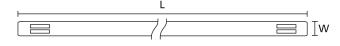
- Durable and robust polyurethane material
- For large cable bundles and wires
- · Flame retardant
- · Weather resistant
- Abrasion resistant
- Good resistance to chemicals
- · Available in white and yellow as standard
- Perforated format with fastening slots for cable ties



TIPTAG PU - printed mark has a tattoo-like permanency.

MATERIAL	Polyurethane (PUR)
Operating Temperature	-65 °C to +120 °C, intermittent 150 °C
Flammability	self-extinguishing, UL 94 V0 (3 mm)
Recommended Ribbon Type	TTRC+
Thermal Transfer Printer	TT431, TT4030





ТҮРЕ	Length (L)	Width (W)	Pack Cont.	Colour	Article-No.
TTAGPU11X65WH	65.0	11.0	190 pcs.	White (WH)	556-25012
TTAGPU11X65YE	65.0	11.0	190 pcs.	Yellow (YE)	556-25019
TTAGPU15X65WH	65.0	15.0	190 pcs.	White (WH)	556-25007
TTAGPU15X65YE	65.0	15.0	190 pcs.	Yellow (YE)	556-25011
TTAGPU11X100WH	100.0	11.0	125 pcs.	White (WH)	556-25021
TTAGPU11X100YE	100.0	11.0	125 pcs.	Yellow (YE)	556-25020
TTAGPU15X100WH	100.0	15.0	125 pcs.	White (WH)	556-25006
TTAGPU15X100YE	100.0	15.0	125 pcs.	Yellow (YE)	556-25010

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available. More colours on request.



Identification labels, thermal transfer

TAG material 1220, UV-stable identification

Panel labels are durable adhesive labels especially made from a thick material that is designed to replace traditional engraved plastic plates. Ideal for panel row marking and string inverter rack identification. Create crisp and clear professional-looking labels by printing with HellermannTyton thermal transfer printers and ribbons. Simple label design creation is easily achieved using separately available TagPrint Pro software.

Features and benefits

- Cost-effective replacement for engraved plastic plates
- · No need for additional label holder
- High-performance adhesive and compressible foam backing
- Optimal adhesion ensured on uneven surfaces
- Rounded corners ensure better long term durability of adhesion
- High contrast text and barcodes
- Tested for a minimum of 10 year's UV performance
- Print on site instead of order off site
- Outstanding chemical resistance with TT122OUT ribbon



MATERIAL	Type 1220, Polyester, white (1220)			
Operating Temperature	-40 °C to +90 °C			
Curing Temperature	from +10 °C			
Adhesive	Acrylic			
Thickness of Foil	50 μm			
Chem. Material Properties	Excellent resistance to aging, weathering and UV-radiation. Extensive resistance to the influence of chemicals and solvents.			
Recommended Ribbon Type	TT122OUT, TT822OUT			
Thermal Transfer Printer	TT431, TT4030			





ТҮРЕ	Width (W)	Height (H)	Width of Liner (WL)	Labels per Row	Pack Cont.	Colour	Article-No.
TAG60-30TDK1-1220-WH	60.0	30.0	66.0	1 pc.	500 pcs.	White (WH)	596-00569
TAG90-45TDK1-1220-WH	90.0	45.0	96.0	1 pc.	500 pcs.	White (WH)	596-00570
TAG100-30TDK1-1220-WH	100.0	30.0	106.0	1 pc.	250 pcs.	White (WH)	596-00571
TAG100-70TDK1-1220-WH	100.0	70.0	106.0	1 pc.	250 pcs.	White (WH)	596-00572

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.





HellermannTyton

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As long as the sun rises each morning, our solar energy cable management expertise will shine on your PV installations

HellermannTyton quality cable management parts are designed to ensure unmatched safety, reliability and longevity in your solar plants. Our product specialists have first-hand expertise meeting solar energy challenges in specific environments. They are ready to join you on site and advise you which cable management parts will give you the best return on investment over the lifetime of your solar installation.



Contact your local representative now to try out HellermannTyton parts on your golden row

If you have any questions on specific solutions or would just like to receive more information, we are happy to help – with all our experience and with technical know-how.

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