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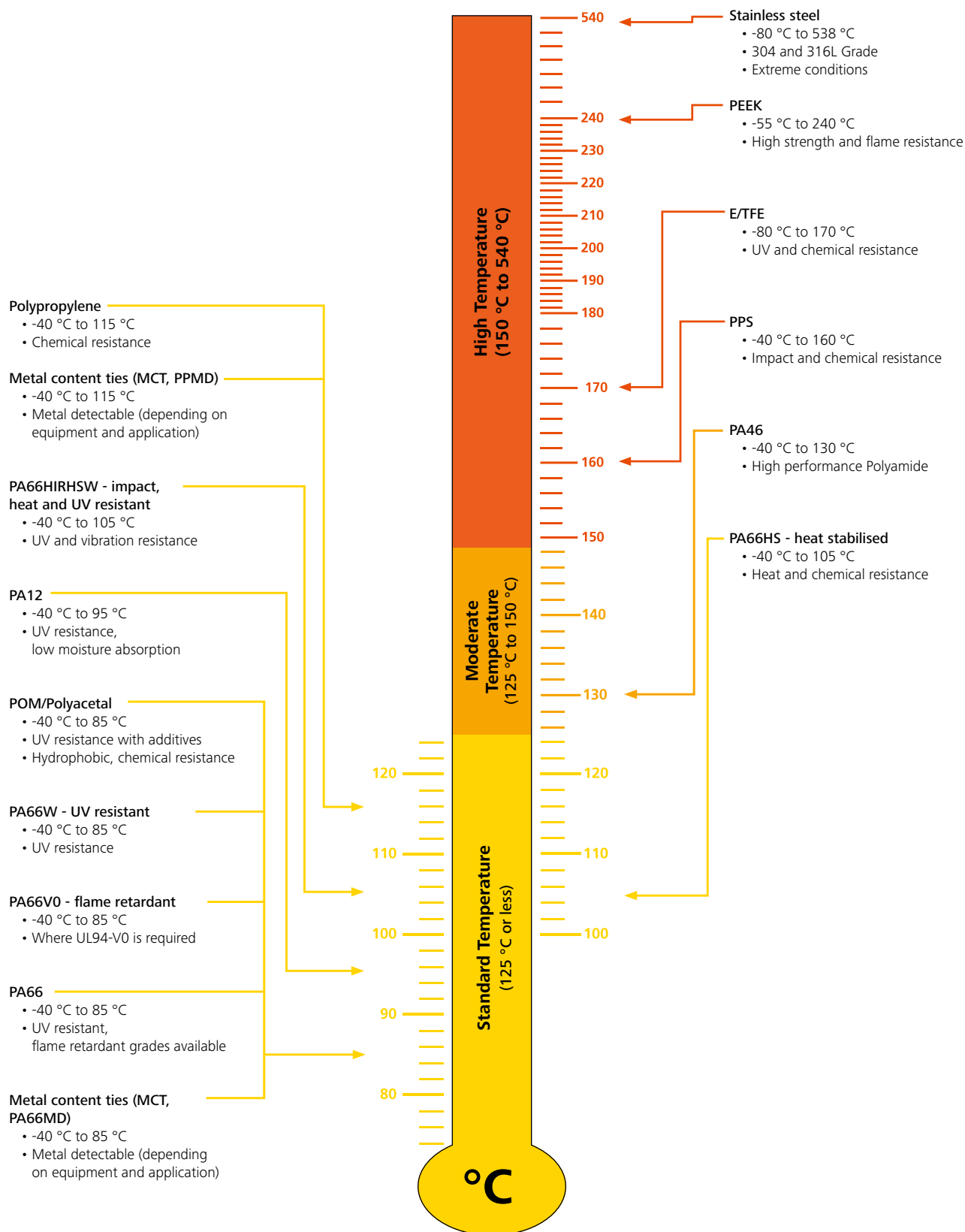


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Operating temperature ranges of cable tie materials

This Material Selection Guide illustrates the minimum and maximum operating temperatures for cable ties according to the material from which we manufacture them. It gives an overview of materials HellermannTyton uses to manufacture cable ties. Please contact our sales team to check availability of products in your preferred material.



Introduction to the main locking technologies used for cable ties

HellermannTyton offers a wide range of cable ties for use in different applications. By constantly refining our products and satisfying the ever-changing demands of the market, various locking technologies have been developed. Below you will find a brief overview of three most common locking technologies and their characteristics.

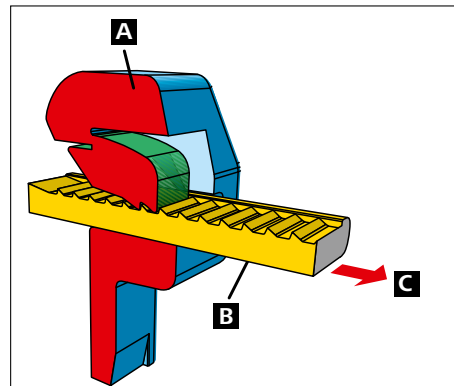
Cable ties with plastic pawls

This technology is used in 90 % of all polyamide (PA) cable ties applied by HellermannTyton. In order to cover a variety of applications, there are different variants of this system, for example: releasable versions, in-line versions, open head versions.

These are one-piece cable ties, the pawl is moulded as an integral part of the cable tie, thereby building in inherent strengths.

Locking technology

Positive locking is achieved by engaging the pawl with the strap serrations. This allows the cable tie to perform to the published minimum tensile strength, that is the loading that the cable tie can hold under application.



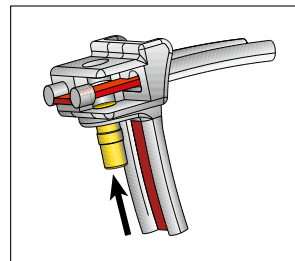
Locking technology of an outside serrated tie. A: Cable tie head B: Cable tie C: Direction of thread

KR series cable ties

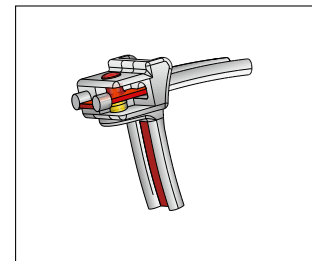
This cable tie is distinguished by its smooth strap and unique locking mechanism. With the KR series the chamfered head achieves an especially firm fit around the bundled material.

Locking technology

This locking technology takes advantage of the excellent deformation properties of polyamide (PA). Here, the glass fibre-reinforced locking pin (yellow) is forced into the strap by the use of an application tool - either the KR6/8 or KR8PNSE. The strap is deformed into the head of the tie by the application of the pin, thereby locking the cable tie in position and allowing the bundling of heavy loads.



The unlocked head (yellow) of a KR-tie.



The cable tie (red) is locked into place with the pin.

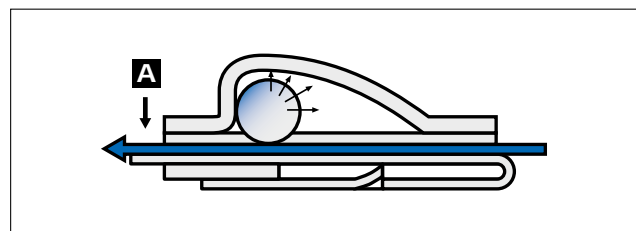
MBT series cable ties

Made of stainless steel grade 304 or 316L, the MBT range of cable ties has no serrations on the strap and is threaded parallel through the head, gliding under a metal ball-bearing locking mechanism. By using an appropriate application tool like our MK9SST the cable tie is easily and quickly tensioned, with the strap cut to a flush finish.

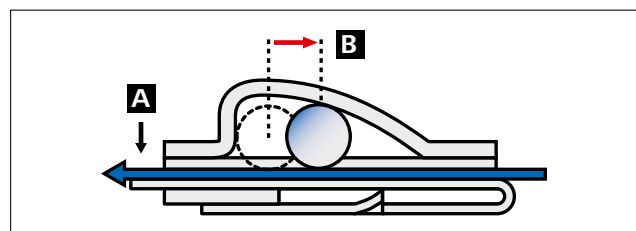
Locking technology

The strap is locked into the head via a ball bearing. The ball locks into the small end of the wedged shaped housing, forming a positive lock with strap.

For rigid objects such as metal pipes, we would recommend our protective channelling (LFPC) to be laid between the bundled object and tie strap. This not only provides protection against galvanic corrosion, but also ensures a better engagement with the bundle. The MBT locking technology keep the minimum tensile strength of up to 7,000 Newtons and standard strap lengths of up to 1.5 m.



1. Initial position, ball bearing moves freely. A: Cable tie (inserting)



2. Ball rebounds and wedges tie in place. A: Cable tie (tightening) B: Ball (wedged)

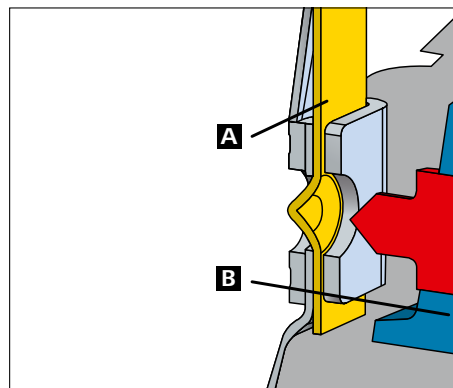
Introduction to the main locking technologies used for cable ties

MST series cable ties

MST cable ties are made of stainless steel 304. They offer similar features to MBT products but with a different head design and closure. Where space is tight the flat head allows for space savings. MST cable ties are not only weather-resistant but also highly resistant to heat, fire, and radiation. It can be used in challenging environments including indoor, outdoor and underground installations.

Locking technology

The punch-locking mechanism keeps the lock tight even in challenging areas with very high vibration such as on trains. Our MST application tools (MST6/MST9) have been specifically developed for tightening and cutting MST cable ties. This tool is mandatory to apply and lock these stainless steel cable ties properly.



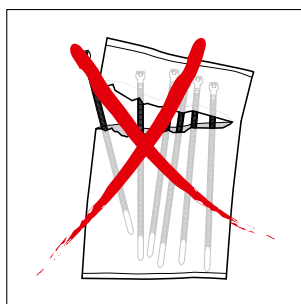
Punch-locking mechanism of the MST-Series. A: Cable tie
B: Application tool

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

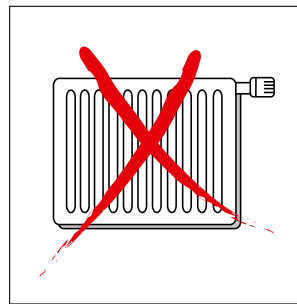
HellermannTyton cable ties, fastenings and fixings are manufactured from high-quality polyamide (PA). This industrial synthetic material is mainly processed using injection moulding, but can also be extruded. Polyamide is a hygroscopic material. This means that the material absorbs and loses moisture. 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 %.

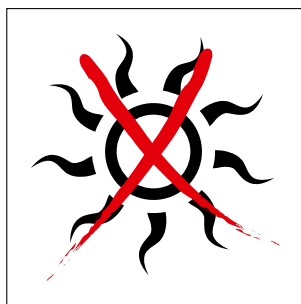
The packaging used by HellermannTyton ensures that the water content in the material remains constant. Therefore, it is important to store the products in their original packaging to preserve the quality of the ties.



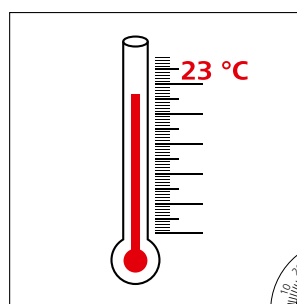
1. Once opened you should use the ties as quickly as possible.
2. Always store ties in the sealed plastic bag.



5. Store the product away from direct sources of heat.
6. Avoid contact with heat: for example, do not place on the radiators.

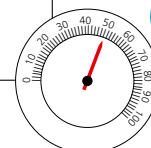


3. Do not expose the product to direct sunlight.
4. Do not store the product in sunlight; for example, on the windowsill.

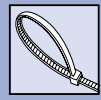


7. The ideal storage conditions are those of the central European standard climate: 23 °C

50%



50% relative humidity



Cable ties polyamide 6.6 standard

T-Series in PA66 natural and black

T-Series cable ties for bundling and securing of cables, pipes and hoses. These cable ties can be used for nearly all kind of applications.

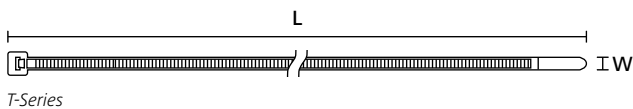
Features and benefits

- Available in a wide range of materials and sizes
- High tensile strength with very low insertion force
- Only high quality plastic is used meeting recycling targets
- Inside serrated cable ties for a strong hold onto bundles
- Ergonomic bent tail offers quick and simple installation
- Easy application either manually or with an application tool



Standard T-Series cable ties – for almost any type of application.

Material specifications: See Article-No. on our website.



PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø max.	N	Pack Cont.	Tools	Article-No.
T18S-PA66-NA	2.3	83.0	16.0	80	1000 pcs.	2,4-5;25	111-02809
T18R-PA66-NA	2.5	100.0	22.0	80	1000 pcs.	2,4-5;25	111-01929
T18R-PA66-BK	2.5	100.0	22.0	80	1000 pcs.	2,4-5;25	111-01980
T18I-PA66-NA	2.5	145.0	35.0	80	1000 pcs.	2,4-5;25	111-02320
T18L-PA66-BK	2.5	203.2	55.0	80	100 pcs.	2,4-5;25	111-02010
T30R-PA66-BK	3.5	150.0	35.0	135	100 pcs.	2,4-5;25	111-03210
T30R-PA66-NA	3.5	150.0	35.0	135	100 pcs.	2,4-5;25	111-03219
T30L-PA66-NA	3.5	198.0	50.0	135	100 pcs.	2,4-5;25	111-00946
T30L-PA66-BK	3.5	198.0	50.0	135	100 pcs.	2,4-5;25	111-00945
T30LL-PA66-NA	3.5	290.0	80.0	135	100 pcs.	2,4-5;25	111-03549
T30LL-PA66-BK	3.5	290.0	80.0	135	100 pcs.	2,4-5;25	111-00982
T40L-PA66-BK	4.0	370.0	105.0	180	100 pcs.	2,4-5;25	111-04301
T50R-PA66-NA	4.6	200.0	50.0	225	100 pcs.	2,4-7;9;25	111-48190
T50I-PA66-NA	4.6	305.0	80.0	225	100 pcs.	2,4-7;9;25	111-00951
T50I-PA66-BK	4.6	305.0	80.0	225	100 pcs.	2,4-7;9;25	111-00950
T50L-PA66-NA	4.6	390.0	110.0	225	100 pcs.	2,4-7;9;25	111-05619
T50L-PA66-BK	4.6	390.0	110.0	225	100 pcs.	2,4-7;9;25	111-00985
T120I-PA66-BK	7.6	300.0	80.0	535	100 pcs.	3;6-7;9-10;25	111-00958
T120I-PA66-NA	7.6	301.6	75.0	535	50 pcs.	3;6-7;9-10;25	111-00926
T150R-PA66-BK	7.6	365.0	100.0	670	100 pcs.	3;6-7;9-10;25	111-14810
T150R-PA66-NA	7.6	365.0	100.0	670	100 pcs.	3;6-7;9-10;25	111-14819
T120R-PA66-BK	7.6	381.0	100.0	535	50 pcs.	3;6-7;9-10;25	111-00823
T120XM-PA66-BK	7.6	600.0	175.0	535	50 pcs.	3;6-7;9-10;25	111-12701

Recommended Tools: 2=MK20, 3=MK21, 4=MK3PNSP2, 5=EVO7i, MK7P, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes. Other combinations between cable tie and foot part available on request.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Cable Ties and Fixings

Cable ties, inside serrated

Cable ties polyamide 6.6 standard

T-Series in PA66 natural and black



T-Series

PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø max.	N	Pack Cont.	Tools	Article-No.
T120L-PA66-NA	7.6	760.0	225.0	535	50 pcs.	3;6-7;9-10;25	111-12429

Recommended Tools: 2=MK20, 3=MK21, 4=MK3PNSP2, 5=EVO7i, MK7P, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes. Other combinations between cable tie and foot part available on request.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.

Cable ties polyamide 6.6 standard

T-Series in PA66 coloured

Coloured T-Series cable ties are ideally suited for marking purposes. They can be used to secure and/or identify different kinds of bundles at the same time.

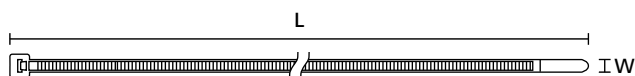
Features and benefits

- Available in a wide range of colours and sizes
- Strong cable tie to permanently mark or identify bundles
- Easy application either manually or with a processing tool
- Coloured T-Series cable ties provide an inside serration



T-Series cable ties – ideally suited for colour coding.

Material specifications: See Article-No. on our website.



T-Series

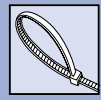
PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø max.	N	Pack Cont.	Tools	Article-No.
T18R-PA66-OG	2.5	101.6	22.0	80	100 pcs.	2;4-5;25	111-02075
T30R-PA66-RD	3.5	152.0	36.0	135	100 pcs.	2;4-5;25	111-00697
T50R-PA66-YE	4.6	200.0	50.0	225	100 pcs.	2;4-7;9;25	111-04805
T50R-PA66-OG	4.6	200.0	50.0	225	100 pcs.	2;4-7;9;25	111-04803

Recommended Tools: 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

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



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Cable ties for outdoor use (UV-resistant)

T-Series in PA66W/UV black

These inside serrated cable ties are made of UV-resistant Polyamide 6.6 (PA66W) and thus suitable for outdoor applications. UV stabilised cable ties resist UV radiation for a considerably longer period compared to standard PA66 cable ties. They can easily be used for bundling and securing cables, pipes and hoses especially in outdoor areas.

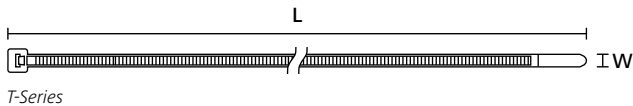
Features and benefits

- 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 hold onto bundles
- Easy application either manually or with a processing tool
- Simple to insert due to bent tail



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

Material specifications: See Article-No. on our website.



T-Series

PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø max.	N	Pack Cont.	Tools	Article-No.
T18R-PA66W-BK	2.5	100.0	22.0	80	100 pcs.	2;4-5;25	111-01960
T18I-PA66W-BK	2.5	139.7	35.0	80	100 pcs.	2;4-5;25	111-01972
T18L-PA66W-BK	2.5	205.0	50.0	80	100 pcs.	2;4-5;25	111-02160
	2.5	205.0	50.0	80	100 pcs.	2;4-5;25	111-01973
T30R-PA66W-BK	3.5	150.0	35.0	135	100 pcs.	2;4-5;25	111-03260
	3.5	150.0	35.0	135	100 pcs.	2;4-5;25	111-01974
	3.5	150.0	35.0	135	100 pcs.	2;4-5;25	111-03113
T30L-PA66W-BK	3.5	198.0	50.0	135	100 pcs.	2;4-5;25	111-00947
T50R-PA66W-BK	4.6	200.0	50.0	225	100 pcs.	2;4-7;9;25	111-05031
	4.6	200.0	50.0	225	1000 pcs.	2;4-7;9;25	111-00984
T50I-PA66W-BK	4.6	300.0	85.0	225	100 pcs.	2;4-7;9;25	111-01975
	4.6	305.0	80.0	225	100 pcs.	2;4-7;9;25	111-00952
T50L-PA66W-BK	4.6	390.0	110.0	225	100 pcs.	2;4-7;9;25	111-05440
T120S-PA66W-BK	7.6	225.0	55.0	535	50 pcs.	3;6-7;9-10;25	111-12860
T120I-PA66W-BK	7.6	300.0	80.0	535	100 pcs.	3;6-7;9-10;25	111-12160
T150R(H)-PA66W-BK	7.6	365.0	100.0	670	100 pcs.	3;6-7;9-10;25	111-14860
T120L-PA66W-BK	7.6	760.0	225.0	535	50 pcs.	3;6-7;9-10;25	111-12430
T150L-PA66W-BK	8.9	820.0	245.0	780	25 pcs.	6-7;9-10	111-15460

Recommended Tools: 2=MK20, 3=MK21, 4=MK3PNSP2, 5=EVO7i, MK7P, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

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

EN 45545-2



EPD

INTERNATIONAL EPD SYSTEM

Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Cable ties for temperatures up to + 105°C (heat stabilised)

T-Series in PA66HS natural and black

These inside serrated cable ties are made from heat stabilised Polyamide 6.6 (PA66HS). They can be applied in environments with continuous temperatures up to +105 °C. T-Series cable ties can be easily installed by hand or using an application tool to ensure consistency of installation.

Features and benefits

- Heat stabilised cable ties (PA66HS) for temperatures up to +105 °C
- Available in a wide range of sizes to cover almost every application
- Inside serration provides a strong hold onto bundles
- Manual and/or pneumatic tools available for greater process reliability
- Commonly offered in natural and black, other colours available on request



Heat stabilised T-Series cable ties up to +105 °C.

Material specifications: See Article-No. on our website.



T-Series

PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø max.	N	Pack Cont.	Tools	Article-No.
T18R-PA66HS-NA	2.5	100.0	22.0	80	100 pcs.	2;4-5;25	111-01959
T18R-PA66HS-BK	2.5	100.0	22.0	80	1000 pcs.	2;4-5;25	111-01940
T18I-PA66HS-BK	2.5	145.0	35.0	80	100 pcs.	2;4-5;25	111-02358
T18I-PA66HS-NA	2.5	145.0	35.0	80	1000 pcs.	2;4-5;25	111-02359
T18L-PA66HS-NA	2.5	205.0	50.0	80	100 pcs.	2;4-5;25	111-02159
T25LL-PA66HS-NA	2.8	330.0	95.0	110	100 pcs.	2;4-5;25	111-02602
T30R-PA66HS-NA	3.5	150.0	35.0	135	100 pcs.	2;4-5;25	111-03259
T30R-PA66HS-BK	3.5	150.0	35.0	135	100 pcs.	2;4-5;25	111-03250
T30L-PA66HS-NA	3.5	198.0	50.0	135	100 pcs.	2;4-5;25	111-03459
T40R-PA66HS-BK	4.0	175.0	40.0	180	100 pcs.	2;4-5;25	111-03970
T50R-PA66HS-BK	4.6	200.0	50.0	225	100 pcs.	2;4-7;9;25	111-02466
T50R-PA66HS-NA	4.6	200.0	50.0	225	100 pcs.	2;4-7;9;25	111-05034
	4.6	200.0	50.0	225	100 pcs.	2;4-7;9;25	111-05035
	4.6	202.0	50.0	225	100 pcs.	2;4-7;9;25	111-04855
T50I-PA66HS-BK	4.6	305.0	80.0	225	100 pcs.	2;4-7;9;25	111-05250
T50L-PA66HS-NA	4.6	390.0	110.0	225	100 pcs.	2;4-7;9;25	111-05655
T120I-PA66HS-NA	7.6	300.0	80.0	535	100 pcs.	3;6-7;9-10;25	111-00959
T150R(H)-PA66HS-NA	7.6	365.0	100.0	670	100 pcs.	3;6-7;9-10;25	111-15069
T150R(H)-PA66HS-BK	7.6	365.0	100.0	670	100 pcs.	3;6-7;9-10;25	111-15050
T120R-PA66HS-BK	7.6	387.0	105.0	535	500 pcs.	3;6-7;9-10;25	111-12058
T120M-PA66HS-BK	7.6	460.0	125.0	535	100 pcs.	3;6-7;9-10;25	111-00153
T120L-PA66HS-BK	7.6	760.0	225.0	535	50 pcs.	3;6-7;9-10;25	111-12440
T150L-PA66HSUV-BK	8.8	820.0	245.0	780	50 pcs.	6-7;9-10	111-01688

Recommended Tools: 2=MK20, 3=MK21, 4=MK3PNSP2, 5=EVO7i, MK7P, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

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



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Cable ties for temperatures up to + 105°C (heat stabilised)

T-Series in PA66HS natural and black

PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø max.		Pack Cont.	Tools	Article-No.
T150M-PA66HS-BK	8.9	530.0	150.0	780	25 pcs.	6-7;9-10	111-15609
T150XL-PA66HS-BK	8.9	1095.0	330.0	780	25 pcs.	6-7;9-10	111-15510

Recommended Tools: 2=MK20, 3=MK21, 4=MK3PNSP2, 5=EVO7i, MK7P, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

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



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Cable Ties inside serrated

T-Series in PA66HIRHS

T-Series cable ties for bundling and securing of cables, pipes and hoses. These cable ties can be used for nearly all kind of applications.

Features and benefits

- Available in a wide range of materials and sizes
- High tensile strength with very low insertion force
- Only high quality plastic is used meeting recycling targets
- Inside serrated cable ties for a strong hold onto bundles
- Ergonomic bent tail offers quick and simple installation
- Easy application either manually or with an application tool



The Allrounder: T-Series cable ties can be used for almost any type of application.

Material specifications: See Article-No. on our website.

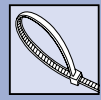


T-Series

PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø max.		Pack Cont.	Tools	Article-No.
T50R-PA66HIRHS-BK	4.6	200.0	50.0	225	100 pcs.	2;4-7;9;25	111-02469

Recommended Tools: 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

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



Cable Ties for outdoor use at higher temperatures

T-Series in PA66HSW

T-Series cable ties for bundling and securing of cables, pipes and hoses. These cable ties can be used for nearly all kind of applications.

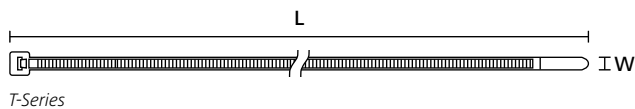
Features and benefits

- Available in a wide range of materials and sizes
- High tensile strength with very low insertion force
- Only high quality plastic is used meeting recycling targets
- Inside serrated cable ties for a strong hold onto bundles
- Ergonomic bent tail offers quick and simple installation
- Easy application either manually or with an application tool



Heat stabilised T-Series cable ties up to +105 °C.

Material specifications: See Article-No. on our website.



PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø max.	N	Pack Cont.	Tools	Article-No.
T18R-PA66HSW-BK	2.5	101.6	22.0	80	1000 pcs.	2;4-5;25	111-01199
T30R-PA66HSW-BK	3.5	150.0	35.0	135	100 pcs.	2;4-5;25	111-01211
T50R-PA66HSW-BK	4.6	202.0	50.0	225	100 pcs.	2;4-7;9;25	111-01278
T50I-PA66HSW-BK	4.6	305.0	80.0	225	100 pcs.	2;4-7;9;25	111-00954
T50L-PA66HSW-BK	4.6	390.0	110.0	225	100 pcs.	2;4-7;9;25	111-01226
T150R(H)-PA66HSW-BK	7.6	365.0	100.0	780	100 pcs.	3;6-7;9-10;25	111-15005

Recommended Tools: 2=MK20, 3=MK21, 4=MK3PNSP2, 5=EVO7i, MK7P, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

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



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Cable ties for higher fire-protection

T-Series in PA66V0 white

T-Series cable ties for bundling and securing cables, pipes and hoses. These cable ties can be used for almost any type of application especially where safety regulations are high and the reduction of smoke and dangerous gases is required. PA66V0 products are most critically used within public sector areas – particularly in the rail, construction and defence industry.

Features and benefits

- White cable tie for higher fire-protection
- Conform to low smoke generation requirements (UL94 V0)
- Low evolution of toxic gases and corrosive acids in event of a fire
- PA66V0 cable ties are available in different sizes
- High safety rating due to low fire hazard



Flame retardant cable tie made from PA66V0 material.

Material specifications: See Article-No. on our website.



T-Series

PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø max.	N	Pack Cont.	Tools	Article-No.
T18R-PA66V0-NA	2.5	100.0	22.0	80	1000 pcs.	2;4-5;25	111-00961
T30R-PA66V0-NA	3.5	150.0	35.0	135	100 pcs.	2;4-5;25	111-00980
T50R-PA66V0-WH	4.6	200.0	50.0	225	100 pcs.	2;4-7;9;25	111-95019
T50R-PA66V0-BK	4.6	200.0	50.0	225	100 pcs.	2;4-7;9;25	111-05037
T50L-PA66V0-WH	4.6	390.0	110.0	225	100 pcs.	2;4-7;9;25	111-00904

Recommended Tools: 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

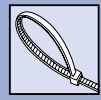
All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

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Cable ties for temperatures up to +150 °C (5000 h) in polyamide 4.6

T-Series in PA46 natural and grey

These inside serrated cable ties are made from Polyamide 4.6 (PA46). They can be applied in environments with temperatures up to +195 °C (for 500 hours) which makes them suitable for applications where a broader temperature range is required. Polyamide 4.6 is a well known material in the automotive, railway or white goods area. An application tool is recommended to ensure greater process reliability while installing cable ties.

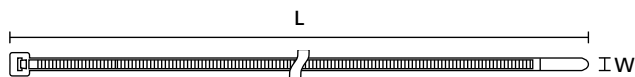
Features and benefits

- Cable tie for high temperature applications up to +150 °C (5000 h) and +195 °C (500 h)
- Available in different sizes to cover various bundle diameters
- Low smoke generation in the event of a fire
- PA46 is a moisture sensitive material
- Inside serrated cable tie offers strong hold around bundles
- Easy application either manually or with an application tool



T-Series cable ties – higher temperature resistance up to +150 °C for 5000 hours (PA46).

Material specifications: See Article-No. on our website.



T-Series

PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø max.	N	Pack Cont.	Tools	Article-No.
T18R-PA46-NA	2.5	100.0	22.0	80	1000 pcs.	2;4-5;25	111-00960
T30R-PA46-NA	3.5	150.0	35.0	135	100 pcs.	2;4-5;25	114-03079
T30R-PA46-GY	3.5	150.0	35.0	135	100 pcs.	2;4-5;25	111-00968
T50R-PA46-GY	4.6	200.0	50.0	225	100 pcs.	2;4-7;9;25	111-05024
T50R-PA46-NA	4.6	202.0	50.0	225	100 pcs.	2;4-7;9;25	111-00525
T50R-PA46-GY	4.6	202.0	50.0	225	100 pcs.	2;4-7;9;25	111-00824
T50I-PA46-GY	4.6	300.0	85.0	225	100 pcs.	2;4-7;9;25	111-01472

Recommended Tools: 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

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



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Cable Ties and Fixings

Cable ties, inside serrated

Cable ties for higher chemical resistance and temperatures of -80° to +170 °C

T-Series in E/TFE (Tefzel®) blue

E/TFE or Tefzel® cable ties are used when higher chemical resistance and/or temperatures up to +170 °C are required. These ties are most likely chosen for challenging applications in industries like food and beverage, aerospace, automotive or railway.

Features and benefits

- Blue cable tie offering high chemical resistance
- Suitable for applications with temperatures of -80° to +170 °C
- Resistant to radioactivity and UV light
- E/TFE is a non hydroscopic material, no moisture absorption
- Complying with UL94 V0 requirements



T-Series E/TFE cable ties – for higher chemical resistance up to +170 °C.

Material specifications: See Article-No. on our website.



T-Series

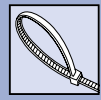
PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø max.		Pack Cont.	Tools	Article-No.
T18R-E/TFE-BU	2.5	100.0	22.0	80	100 pcs.	2;5	111-00659
T30R-E/TFE-BU	3.5	150.0	36.0	133	100 pcs.	2;4-5;25	111-00698
T50R-E/TFE-BU	4.7	202.0	50.0	222	100 pcs.	2;4-7;9;25	111-00732
T50L-E/TFE-BU	4.7	381.0	105.0	225	100 pcs.	2;4-7;9;25	111-00718

Recommended Tools: 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

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



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Cable ties in-between size to T-Series

LK-Series

For bundling and securing cables, pipes, hoses and other elements. These cable ties can be used for a countless number of applications. The LK-Series is similar to T-Series but offers in-between sizes to fit individual customer needs.

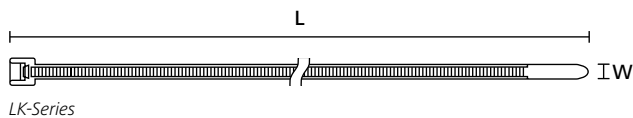
Features and benefits

- Inside serrated cable ties for a strong hold around bundles
- Various materials and sizes are available
- High tensile strength with very low insertion force
- Easy application either manually or with an application tool



LK-Series – in-between size to T-Series.

Material specifications: See Article-No. on our website.



LK-Series

PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø max.	N	Pack Cont.	Tools	Article-No.
LK2A-PA66HIR-BK	4.6	270.0	73.0	225	500 pcs.	2;4-5;25	111-00118
LK5-PA66-BK	13.2	535.0	150.0	1115	50 pcs.	3;6-7;9-10;25	111-60510
LK5-PA66W-BK	13.2	535.0	150.0	1115	50 pcs.	3;6-7;9-10;25	111-60560

Recommended Tools: 2=MK20, 3=MK21, 4=MK3PNSP2, 5=EVO7i, MK7P, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

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



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



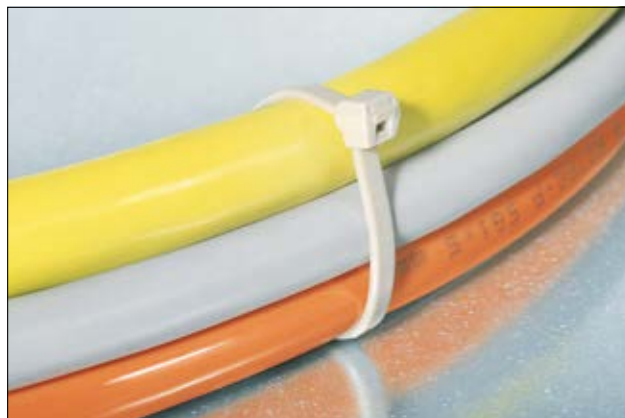
Cable ties for high temperature applications up to +240 °C

PEEK Ties, inside serrated

PEEK Ties have been designed for use in hazardous environments. Their suitability for high temperature applications makes them ideal for use in the drilling industry, railway, offshore or automotive industry. The excellent chemical and radium ray resistance is predestined for applications in medical engineering, chemical industry and power stations. Within the aerospace industry, PEEK ties are suitable due to their good ratio weight to tensile strength. Because of this combination of different properties, PEEK ties can replace metal solutions.

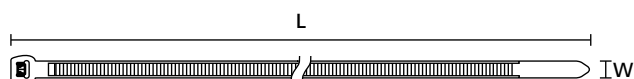
Features and benefits

- For high temperature applications from -55 °C up to +240 °C
- Close fit to the cable bundle due to the deepening head shape
- Easy insertion combined with high tensile strength
- Takes up less space due to curved head design
- Combines the performance of a metal tie with the ease of use of a polyamide cable tie
- Manual and/or pneumatic tools available for greater process reliability



The PEEK cable tie PT220 for high temperature applications.

Material specifications: See Article-No. on our website.



PEEK-Series

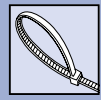
PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø min.	Bundle Ø max.		Pack Cont.	Tools	Article-No.
PT220-PEEK-BGE	4.7	220.0	8.0	56.0	380	100 pcs.	1-2;4-5;25	111-01235

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



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Cable ties for parallel routing

DH-Series

Double loop head ties are ideal for separation of two cable runs without the need for additional cable ties. Additionally these ties are widely used within the packaging industry. The first loop closes and secures the bag whilst the second loop can be made into a carrying handle (subject to weight).

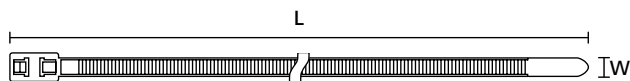
Features and benefits

- Possibility to separate bundles with only one cable tie
- Cable tie with two heads creating an inside and outside serrated loop
- Available in a wide range of materials
- Bundles can be of different diameter
- Maximum bundle diameter is a maximum combined bundle
- Easy application either manually or with a processing tool

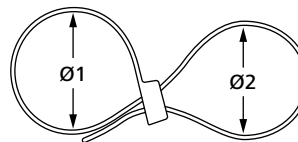


DH-Series cable ties for parallel routing.

Material specifications: See Article-No. on our website.



DH-Series



DH-Series maximum combined bundle diameter

PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø max.	N	Min. Tensile Strength 2nd loop	Pack Cont.	Tools	Article-No.
T50RDH-PA66-BK	4.7	210.0	38.0	225	180 N	100 pcs.	2;4-7;9;25	117-05000
T50RDH-PA66HS-BK	4.7	210.0	38.0	225	180 N	100 pcs.	2;4-7;9;25	117-05050
T50IDH-PA66HS-BK	4.7	305.0	76.2	225	180 N	1000 pcs.	2;4-7;9;25	117-05350
T50LDH-PA66HS-BK	4.7	395.0	100.0	225	180 N	100 pcs.	2;4-7;9;25	117-00008
T50LDH-PA66-BK	4.7	395.0	101.6	225	180 N	100 pcs.	2;4-7;9;25	117-05400
T120RDH-PA66-BK	7.6	398.0	101.6	534	535 N	50 pcs.	3;6-7;9-10;25	117-05501

Recommended Tools: 2=MK20, 3=MK21, 4=MK3PNSP2, 5=EVO7i, MK7P, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

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



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Cable Ties and Fixings

Cable ties, inside serrated

Cable ties for food industry, detectable

MCT-Series

The Metal Content Tie is a cable tie specifically designed for use in the food and pharmaceutical processing industries. A unique manufacturing process, involving the inclusion of a metallic pigment, enables even small 'cut-off' sections of the tie to be detected by standard metal-detecting equipment. Ideally suited for the installation of cabling in and around the manufacturing process.

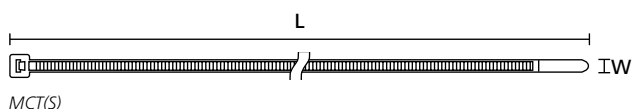
Features and benefits

- Total metal dispersion throughout the tie
- Can support quality assurance in the production of food stuffs, for example HACCP
- Blue colour for easy visual detection
- Greatly reduces risk of contamination
- Metal detectable (detection level depending on specific application and equipment)



Our detectable MCT(S) cable ties are used in the food and pharmaceutical industry.

Material specifications: See Article-No. on our website.



PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø max.	N	Pack Cont.	Tools	Article-No.
MCT18R-PA66MD-BU	2.5	100.0	22.0	80	100 pcs.	2;4-5;25	111-01225
MCT30R-PA66MD-BU	3.5	150.0	35.0	135	100 pcs.	2;4-5;25	111-00829
MCT50R-PA66MD-BU	4.6	203.2	50.0	225	100 pcs.	2;4-5;25	111-00830
MCT50L-PA66MD-BU	4.7	380.0	110.0	225	100 pcs.	2;4-5;25	111-00831

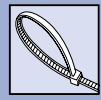
Recommended Tools: 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



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Cable ties for hose and convoluted tubing

WS-Series for heavy duty applications

The very flexible wide-strap cable tie is used in heavy-duty applications where limited room is offered for the application. It is therefore a valued product in all areas of mass transit, as well as the construction and automotive industries.

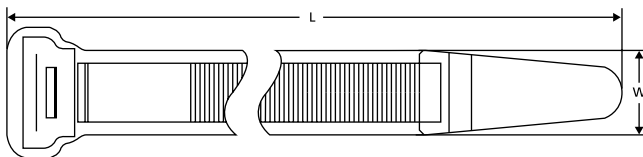
Features and benefits

- Wide strap is designed to minimize pinching of soft hoses and convoluted tubing
- Low profile head
- Clamping rails on the bottom of head to increase grip on round bundles
- Accommodates a large range of bundle diameters: 9.5mm - 104.7mm
- Flexible strap
- Bent tip for quick insertion into mounts



The wide strap cable tie accommodates a large range of bundle diameters: 9,5mm - 104mm.

Material specifications: See Article-No. on our website.



Wide Strap Heavy Duty Cable Ties

PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø max.	N	Pack Cont.	Tools	Article-No.
WSI-PA66HIRHSUV-BK	12.7	307.0	82.5	535	300 pcs.	6-7;9-10	111-12301

Recommended Tools: 7=EVO9i, 9=EVO9iHT, 10=MK9P. For more information on toolings please refer to the Application Tooling chapter on page 308.

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



Cable ties inside serrated

AB-Series

AB-Series cable ties for bundling and securing of cables, pipes and hoses. These cable ties can be used for nearly all kind of applications.

Features and benefits

- Made of Polyamide 6.6 (PA66), heat and UV-resistance
- For High Temperature and indoor/outdoor use
- Available in a wide range of materials and sizes
- High tensile strength with very low insertion force
- Only high quality plastic is used meeting recycling targets
- Inside serrated cable ties for a strong hold onto bundles
- Ergonomic bent tail offers quick and simple installation
- Easy application either manually or with an application tool



Material specifications: See Article-No. on our website.

PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø max.		Pack Cont.	Tools	Article-No.
AB100-PA66HSW-BGE	2.5	100.0	22.0	80	100 pcs.	2;4-5	111-00775
AB350-PA66HSW-BGE	7.6	382.0	100.0	535	50 pcs.	1;3;5;10	111-00780

Recommended Tools: 1=MK10-SB, 2=MK20, 3=MK21, 4=MK3PNSP2, 5=EVO7i, MK7P, 10=MK9P. For more information on toolings please refer to the Application Tooling chapter on page 308.

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



Cable ties for high temperature applications up to +150 °C

Dynalok

Dynalock have been designed for the use in hazardous environment. Its suitability for high temperature applications makes it useful for the drilling industry, railway, offshore or automotive industry. The excellent chemical and radium ray resistance is predestined for applications in medical engineering, chemical industry and power stations.

Features and benefits

- For high temperature application from -40° C up to +150° C
- Close-fitting to the cable bundle due to the deepening head shape
- Easy insertion combined with high tensile strength
- Easy application either manually or with a processing tool



Material specifications: See Article-No. on our website.

PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø max.		Pack Cont.	Tools	Article-No.
DL220-PA9THS-BK	4.7	220.0	50.0	350	100 pcs.	2;4-5;25	111-01716

Recommended Tools: 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

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



Cable ties for thin-walled bundles

OS-Series

OS-Series cable ties are used in many areas where thin-walled or soft insulation wires and cable are being installed, for instance automotive and electrical industry.

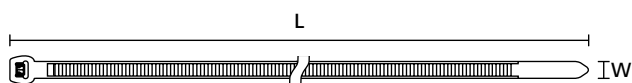
Features and benefits

- Outside serrated cable tie with smooth surface to the bundle
- Tie follows the contours of the cable bundle perfectly
- Takes up less space due to curved head design
- Easy insertion combined with high tensile strength
- PA46 material for higher temperatures up to +195 °C (500 h)
- PA66V0 cable ties fulfill Limited Fire Hazard requirements
- Easy application either manually or with a processing tool



Outside serrated OS-Series cable tie with smooth surface to the bundle.

Material specifications: See Article-No. on our website.



OS-Series



The curved head design of the OS-Series

PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø max.	N	Pack Cont.	Tools	Article-No.
T18ROS-PA66HS-NA	2.5	100.0	20.0	80	200 pcs.	1-2;4-5;25	118-00034
T18ROS-PA66HS-BK	2.5	100.0	20.0	80	1000 pcs.	1-2;4-5;25	118-04703
T30ROS-PA66HS-BK	3.4	148.0	35.0	135	500 pcs.	1-2;4-5;25	118-00254
T30LOS-PA66HS-NA	3.4	200.0	50.0	135	100 pcs.	1-2;4-5;25	118-00044
T30LOS-PA66HS-BK	3.4	200.0	50.0	135	100 pcs.	1-2;4-5;25	118-04900
T50SOS-PA66HS-BK	4.6	150.0	35.0	225	500 pcs.	1-2;4-7;25	118-00099
	4.6	150.0	35.0	225	1000 pcs.	1-2;4-7;25	118-00119
T50ROS-PA66HS-BK	4.6	200.0	50.0	225	1000 pcs.	1-2;4-7;25	118-00093
T50ROS-PA66HS-NA	4.6	200.0	50.0	225	1000 pcs.	1-2;4-7;25	118-00097
T50MOS-PA66HS-BK	4.6	245.0	66.0	225	100 pcs.	1-2;4-5;25	118-00018
T50LOS-PA66HS-BK	4.6	384.0	110.0	225	100 pcs.	1-2;4-7;25	118-05900
T120ROS-PA66HS-BK	7.6	385.0	105.0	535	100 pcs.	1;3;6-7;9-10;25	118-00066
T120ROS-PA66HS-NA	7.6	385.0	105.0	535	100 pcs.	1;3;6-7;9-10;25	118-00067

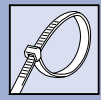
Recommended Tools: 1=MK10-SB, 2=MK20, 3=MK21, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 9=EVO9iHT, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



INTERNATIONAL EPD SYSTEM

Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Cable ties for high temperature applications up to +240 °C

PEEK Ties, outside serrated

PEEK Ties have been designed for use in hazardous environments. Their suitability for high temperature applications makes them ideal for use in the drilling industry, railway, offshore or automotive industry. The excellent chemical and radiation resistance is predestined for applications in medical engineering, chemical industry and power stations. Within the aerospace industry, PEEK ties are suitable due to their good ratio weight to tensile strength. Because of this combination of different properties, PEEK ties can replace metal solutions.

Features and benefits

- For high temperature applications from -55 °C up to +240 °C
- Outside serrated cable tie with smooth surface to the bundle
- Close fit to the cable bundle due to the deepening head shape
- Easy insertion combined with high tensile strength
- Takes up less space due to curved head design
- Combines the performance of a metal tie with the ease of use of a polyamide cable tie
- Manual and/or pneumatic tools available for greater process reliability

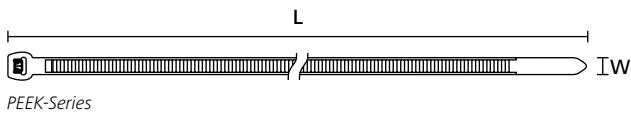


Outside serrated Cable Tie and Identification tag HFTP48 made from Peek.



A clearly better way of identifying cables and pipes with HFTP PEEK tags.

Material specifications: See Article-No. on our website.



PART DESCRIPTION	Drawing	Width (W)	Length (L)	Bundle Ø min.	Bundle Ø max.	N	Pack Cont.	Tools	Article-No.
PT2A-PEEK-BGE		3.4	145.0	4.0	35.0	230	100 pcs.	1-2;4-5;25	118-00032

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Cable ties with low profile head

PE-Series

These ties are particularly useful in areas with restricted space. The low profile design ensures that nothing snags on the heads. Coloured low profile cable ties are ideal for securing foam padding to playground equipment or as a simple means of identifying equipment.

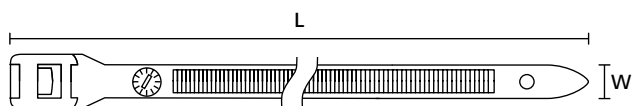
Features and benefits

- Outside serrated cable tie with a smooth surface to the bundle
- Coloured cable ties can be used for identification
- Broad contact area with the bundle minimises risk of damage
- Low profile head for ideal use in restricted spaces
- Parallel entry for optimal fit around circular bundles



Coloured PE400-Series are ideal to secure foam in playground area.

Material specifications: See Article-No. on our website.



PE-Series

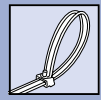
PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø max.		Pack Cont.	Tools	Article-No.
PE530-PA66-BK	9.0	535.0	146.0	445	100 pcs.	6-7;9-10	112-53062

Recommended Tools: 10=MK9P. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Cable tie locked by glass fibre pin

KR-Series, 1-Piece

This cable tie is distinguished by its smooth strap and unique locking mechanism. The chamfered head of the KR-Series allows for a firm fit around the bundled element. Due to its special design KR-Series cable ties can be used as a safety method to bundle any cable and to also secure bellows on steering racks, water hoses or vacuum lines. The endless strap version is fairly flexible and can be cut to any length required. Separate heads are available to fix the strap.

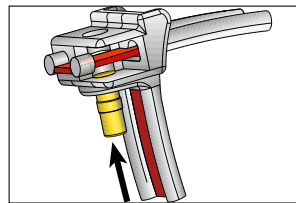
Features and benefits

- Cable tie without serration to avoid any damage to cables
- Strap is locked into place with a glass-fibre reinforced pin
- Very secure and vibration resistant fixing
- Available in various materials, colours and almost every length
- Cable ties from PA12 are highly resistant to chemicals, impact and UV light
- KR-ties up to 426 mm are made as one piece
- For assembly a special KR-tool is needed

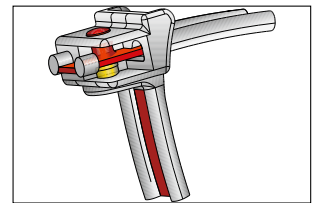
Specific part numbers according to EN45545 available on request.



KR-Series ties applied on a cable tray.

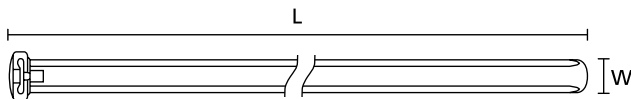


The unlocked head (yellow) of a KR-tie.



The cable tie (red) is locked into place with the pin.

Material specifications: See Article-No. on our website.



Cable tie KR-Series

PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø max.	N	Pack Cont.	Tools	Article-No.
KR6/35-PA66UV-BK	6.1	360.0	93.0	490	50 pcs.	11-13	121-63560
KR8/33-PA66HS-BK	8.0	337.0	86.0	785	50 pcs.	11-13	121-73390
KR8/33-PA66HS-NA	8.0	337.0	86.0	785	50 pcs.	11-13	121-83355

Recommended Tools: 11=KR6/8, 12=EVO-KR, 13=KR8PNSE. For more information on toolings please refer to the Application Tooling chapter on page 310.

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Endless cable ties with separate head and spacer

EL-TY-Series

These robust cable ties are particularly suitable for use with larger diameter cables, pipes and hoses. Designed originally for securing overhead catenary and cables, they are now used in many industries from the building sector, through to the chemical industry, to the installation of signs for traffic management. Separate spacers allow for a defined distance when bundling in parallel.

Features and benefits

- Made of very strong Polyacetal (POM)
- System consists of endless strap, spacers and heads
- Head includes stainless steel pawls for a proper fixation
- Very secure fixing and good resistance to ageing and UV light
- Suits any bundle diameter and reduces inventory

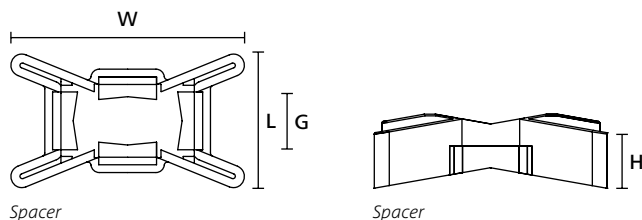


Continuous strap and separate heads allow for any bundle diameter, eliminating waste.



Spacer.

Material specifications: See Article-No. on our website.



PART DESCRIPTION	Width (W)	Length (L)	Height (H)		Content	Article-No.
EL-TY (TELS-SPK2)-PP-BK	53.3	30.5	17.0	1115	50 Spacer	111-32000

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Cable ties inside serrated with tuckaway

RT250-Series up to 1115 N loop tensile strength

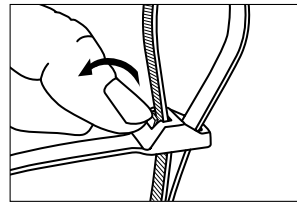
The RT250 is a releasable cable tie. Due to its minimum loop tensile strength of 1,115 N the cable tie is perfectly suited to fix larger and/or heavier bundles. RT250 can be opened and reused. UV-resistant cable ties manufactured from PA66W are recommended for outdoor applications. For shorter lengths REL250-Series can be offered.

Features and benefits

- Releasable and reusable cable tie
- Suitable for larger and/or heavier bundles
- Eyelet allows excess tail to be tucked neatly away
- Available in black and natural colour
- Extended trigger for simple and quick release of ties
- Protected trigger to avoid accidental release
- RT250 cable ties are inside serrated

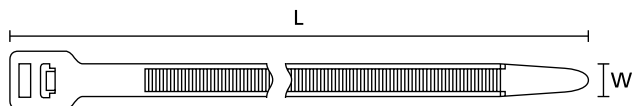


RT250 Cable Ties: Ideal for larger or heavier bundles these ties can be opened and reused.



The closure function of the reopenable cable tie from the RT250-series.

Material specifications: See Article-No. on our website.



RT250-Series

PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø min.	Bundle Ø max.	N	Pack Cont.	Article-No.
RT250XL-PA66-BK	12.5	1030.0	12.0	305.0	1115	25 pcs.	131-75510

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Cable ties inside serrated with kickdown lever

REL-Series

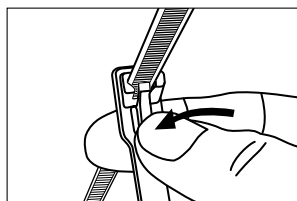
The REL-Series is ideally used in applications where changes are anticipated and a tie needs to be opened and closed repeatedly. The release mechanism of an REL cable tie allows simple and quick opening with only one hand. UV resistant cable ties manufactured from PA66W are recommended for outdoor applications.

Features and benefits

- Releasable and reusable cable tie for medium-weight loads
- Extremely easy-to-operate release mechanism
- Opens simply and quickly with only one hand
- Also available in PA66W for outdoor applications
- REL cable ties have their serration on the inside

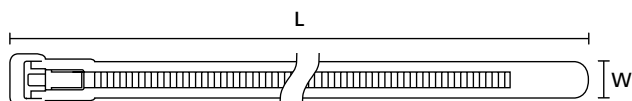


Releasable and reusable cable tie, REL-Series.



The closure function of the reopenable cable tie from the REL-series.

Material specifications: See Article-No. on our website.



REL-Series

PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø min.	Bundle Ø max.		Pack Cont.	Article-No.
REL250-PA66-NA	7.6	250.0	16.0	68.0	200	100 pcs.	131-22519
REL250-PA66W-BK	7.6	250.0	16.0	68.0	200	100 pcs.	131-22560

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Releaseable Cable Ties

RT Series With Extended Pawl

Used in a wide range of industries these releasable and reusable ties are ideal where temporary installation, or, the addition or removal of cables is required, e.g. Theatres, outdoor events or prototype harnessing work.

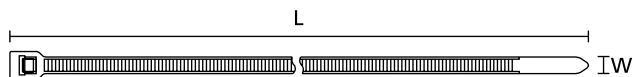
Features and benefits

- Extended trigger for simple and quick release of ties
- Multiple grades of PA 6.6 for use indoors, outdoors or at high temperatures



Releasable cable tie features a head design with extended pawl for quick release of bundles.

Material specifications: See Article-No. on our website.



RT,-RELK-, RLT-Series

PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø min.	Bundle Ø max.		Pack Cont.	Article-No.
RT40R-PA66-NA	4.0	215.9	1.5	51.0	180	100 pcs.	115-06219

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Cable ties releasable for heavier bundles

SR255-Series

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.

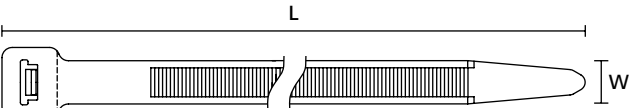
Features and benefits

- Releasable and reusable cable tie
- Suitable for larger and heavier bundles
- Extended trigger for simple and quick release of ties
- Protected trigger to avoid accidental release



Heavy duty cable tie features a release in the head for easier bundle maintenance.

Material specifications: See Article-No. on our website.



SR225

PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø min.	Bundle Ø max.		Pack Cont.	Article-No.
SR255X-PA66HIRHSUV-BK	12.6	370.0	13.0	100.0	1115	500 pcs.	115-42100

All dimensions in mm. Subject to technical changes.



Reusable tie

RF Series

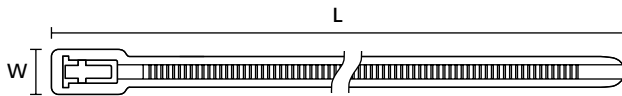
Can be used for temporal bandling, cable identification, and as packing material.

Features and benefits

- Variety of colors are prepared for identification purposes



Material specifications: See Article-No. on our website.



PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø min.	Bundle Ø max.		Pack Cont.	Article-No.
RF100-PA66-BK	7.4	100.0	2.5	18.0	222	100 pcs.	115-00044

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



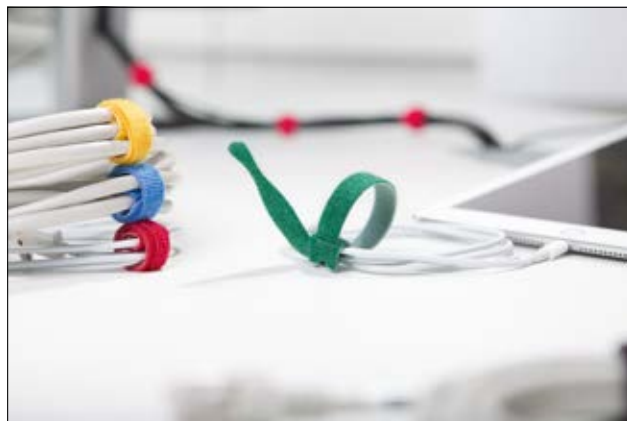
Hook and loop ties

TEXTIE-Series

The TEXTIE-Series offers a soft bundling method and is ideal for use on telephone cables, optical fibre and network cables. These cable ties can be reopened and reused up to 400 times. A perfect solution for temporary installations and cable management for stage equipment, at outdoor events or for prototype harnessing. Also suitable for use in private or office applications. TEXTIE cable ties are available in various colours and can be used to colour-code cables and/or wires.

Features and benefits

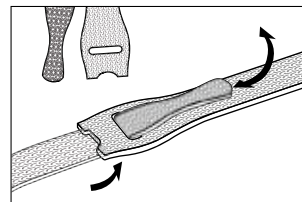
- Quick and simple to use without tools
- Reusable up to 400 times
- Various colours for easy identification
- For indoor and outdoor use
- Can be attached to the bundle permanently
- Resistant to ageing, no corrosion



Due to the functional cable tie design the TEXTIE is fixed on the cable and cannot get lost.

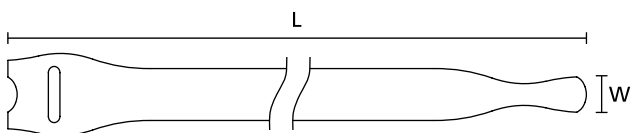


The TEXTIE-Series is available in different colours and lengths.

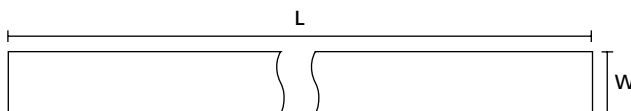


The closure function of the reopenable cable tie from the Textie-series.

Material specifications: See Article-No. on our website.



TEXTIE -Series S, M and L



TEXTIE-Series 5 and 25 m

PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø max.	Material Loop	Material Hook	Pack Cont.	Article-No.
TEXTIE M-PA66/PP-BK	12.5	200.0	60.0	Polyamide 6.6 (PA66)	Polypropylene (PP)	10 pcs.	130-00013

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Lacing tape made of glass fibre

Lacing tape LTHT4C2NA

Features and benefits

- High tensile strength
- Synthetic rubber surface finishing provides very good knotting characteristics



Lacing tape LTHT4C2NA.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Width (W) min.	Width (W) max.	Length (L)	Material	Pack Cont.	Article-No.
LTHT4C2NA-GF-NA	2.41	3.27	250.0 m	Glass-fibre (GF)	250 m	174-00254

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Cable ties with ball-lock

MBT-Series, stainless steel 304

Metal ties are ideal for all applications that require high strength, reliability and fire resistance. The MBT range of stainless steel cable ties can be used in chemical industries and on oil platforms as well as in mass transit, shipbuilding and mining industries. MBT ties are also suitable for machine building, construction and in the outside area of radio technology. Additionally MBT ties are ideal for securing lighting in theatres and exhibition halls.

Features and benefits

- Cable ties MBT, made from stainless steel 304
- Non-releasable locking feature
- Corrosion resistant
- Weather resistant
- Outstanding chemical resistance
- High temperature resistant
- Non-burning

Material specifications: See Article-No. on our website.

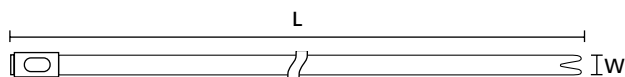
For hard, smooth surface applications, we recommend the use of our LFPC protective channels.



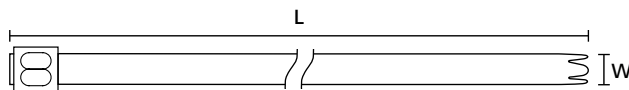
Stainless steel cable ties, uncoated, MBT_SS, MBT_HS.



Stainless Steel Cable Ties, uncoated, MBT_XHS.



MBT-Series 4.6 mm and 7.9 mm width



MBT-Series 12.3 mm width

PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø max.	Pack Cont.	Tools	Article-No.
MBT125AL-SS304-ML	4.6	125.0	25.0	100 pcs.	15-18	111-20810
MBT200AL-SS304-ML	4.6	200.0	50.0	100 pcs.	15-18	111-20830

Recommended Tools: 15=MK9SST, 16=MK9PSST, 17=HDT16, 18=KST-STG200. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.

MBT-Series, stainless steel 316L

PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø min.	Bundle Ø max.		Pack Cont.	Tools	Article-No.
MBT680BL-SS316-ML	4.6	680.0	-	200.0	-	100 pcs.	15-18	111-20600
MBT33H-SS316L-ML	7.9	838.0	12.0	254.0	2000	50 pcs.	15-18	111-94339

Recommended Tools: 15=MK9SST, 16=MK9PSST, 17=HDT16, 18=KST-STG200. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Cable ties with ball-lock and coating

MBT-FC-Series, stainless steel 316L

The MBT range of stainless steel cable ties can be used in the most arduous of conditions or where the additional security, strength and fire resistance of a metal fixing is required. Used in all industries from mass transit, ship building, oil rigs, mining and chemical industry, theatres and exhibition halls. In the event of a fire, cables will remain securely held in place and will not fall to block emergency exits. Fully coated ties can also be used to avoid any reflection. An important consideration for instance in the defence industry.

Features and benefits

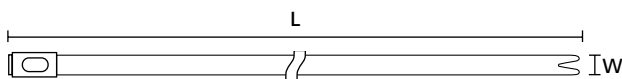
- Fully coated MBT, made from type 316L stainless steel with polyester coating
- Non-releasable locking feature
- Coated cable tie with smooth edges
- Comfortable handling and installation
- Eliminates contact corrosion between dissimilar materials during application



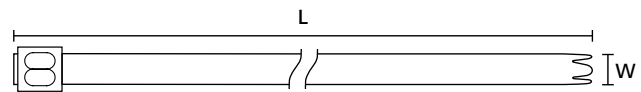
Stainless steel cable ties, coated, MBT_SFC, MBT_HFC.

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

Material specifications: See Article-No. on our website.



MBT-Series 4.6 mm and 7.9 mm width



MBT-Series 12.3 mm width

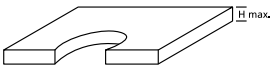
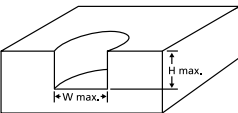
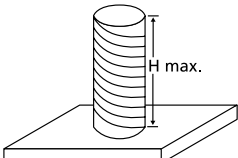
PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø max.	Pack Cont.	Tools	Article-No.
MBT100BCL-SS316/SP-BK	4.6	100.0	25.0	100 pcs.	15-18	111-20000
MBT125BCL-SS316/SP-BK	4.6	125.0	25.0	100 pcs.	15-18	111-20210
MBT150BCL-SS316/SP-BK	4.6	150.0	35.0	100 pcs.	15-18	111-20220
MBT200BCL-SS316/SP-BK	4.6	200.0	50.0	100 pcs.	15-18	111-20230
MBT260BCL-SS316/SP-BK	4.6	200.0	62.0	100 pcs.	15-18	111-20240
MBT300BCL-SS316/SP-BK	4.6	300.0	83.0	100 pcs.	15-18	111-20250
MBT360BCL-SS316/SP-BK	4.6	360.0	100.0	100 pcs.	15-18	111-20260

Recommended Tools: 15=MK9SST, 16=MK9PSST, 17=HDT16, 18=KST-STG200. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



Selection guide for fixing ties

Application	Arrowhead	Fir Tree Mount	Rivet Wall Plug	Screw Mount	EdgeClip	Weld Stud Mount
	●	●		●		
		●	●	●		
					●	
						●



Arrowhead

This fixing tie is based on an arrowhead offering high extraction forces. The arrowhead is securely in place when a click can be heard and felt by the user.



Arrowhead with disc

The disc minimises the ingress of dust, dirt and water. Furthermore a safe fixation inside the drill hole is assured that withstands pressure from various directions.



Arrowhead with supporting wings

Arrowhead fixings with supporting wings offer good and stable fixation in drilled holes. The supporting wings generate additional pressure to assure a firm and secure fixing while taking up any variation in panel thickness. These ties are also suitable in high vibration applications.



Arrowhead without supporting wings

The arrowhead design ensures good fixation and takes up minimal space.



Fir Tree Mount

Fir Tree Mounts can be pushed into pre-punched holes easily in panels or threaded, blind holes based on the low insertion forces. The design is ideally suited for a wide range of sheet thicknesses. The disc on top of the fir tree covers the hole and minimises the ingress of dust, dirt and water.



Weld Stud Mount

Many of the HellermannTyton weld stud mounts can easily be attached by hand ("soft push"). The design offers very low insertion forces that require no tools. The mounts can be removed by twisting to the left.



Weld Stud Fixings with lateral adjustment

The special oval shape of these mounts provides a 5 - 6 mm lateral adjustment to cater for any misalignment of the stud or incorrect positioning of ties on the cables. The bundle can therefore be moved when mounted.



EdgeClip

The EdgeClips are specifically designed to bundle and guide cable and wires on edges. Cost intensive drill holes for fixing are no longer required. EdgeClips are easily mounted by hand, the integrated metal clamp, securely keeping the clips on the edge.



EdgeClip twistable

Ideally suited for fixations where bundles need to be flexibly guided. These EdgeClips are available with facilities for 90° or 360° rotation.



Cable and Hose Attachment

Excellent solution for subsequent attachment of pipes and wires to installed tubes.



Heavy Duty Application

These sturdy fixing ties can withstand vibrations. They are easy to apply and give a secure alignment to the bundle. There will be high tightening torque through metal bushing.



Two Piece Fixing Ties with Clip Coupler

The Coupler is an article to connect two cable ties for parallel bundling of tubes, harnesses or cables. Its design enables the cable ties to rotate up to 90° and allows flexible installations.



1-piece fixing ties with arrowhead, with disc in the strap

for round holes

These fixing ties are ideal for use in many different industries, including automotive, aerospace, rail and panel building.

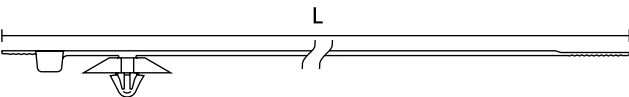
Features and benefits

- Easy to assemble without the need for a tool
- Arrowhead simply locks into place
- Disc adjusts tie for pressures from various directions and minimises access of dust and dirt
- Cable tie head always situated in defined position
- Bundle runs directly across fixing point
- Simple assembly due to tab at the end of the head

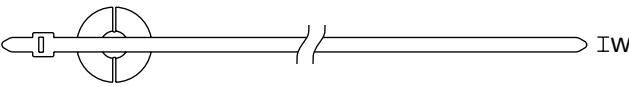


The 'tab' on the head of the tie makes it easy to locate and lift the head for assembly.

Material specifications: See Article-No. on our website.



T80RSFT

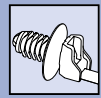


T80RSFT with flexible disc.

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Disc Ø	Bundle Ø max.	N	Tools	Article-No.
T80RSFT-PA66HS-BK		5.7 - 6.3	1.0 - 3.5	4.6	190.0	24.4	45.0	355	1-2;4-7;25	150-15493

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



1-piece fixing ties with arrowhead, with disc

for round holes

With a diverse range of fixing possibilities these ties are ideal for use in many different industries, including automotive, aerospace, white goods manufacture and panel building. This fastening solution is used to secure cable harnesses. We offer a variety of panel thicknesses and hole sizes to suit all kinds of application.

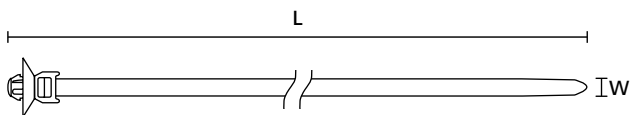
Features and benefits

- Easy to install without the need for a tool
- Arrowhead simply locks into place
- Disc adjusts tie for pressures from various directions and minimises ingress of dust and dirt
- Cable tie head always situated in a defined position
- KSFT-types with specially rounded arrowhead minimise the assembly height



The disc at the head of the T50S0SSFT6.5E protects the bore against dirt and splashes.

Material specifications: See Article-No. on our website.



T50S0SKSFT6.5S2-E

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
HB010-25120-PA66/6HIRHS-GY		-	-	-	-	-	-	-	126-00712
T50S0SSFT6.5E-PA66HS-BK		6.3 - 6.7	1.9 - 2.5	4.6	158.8	30.0	225	1-2;4-7;25	126-03102
T50S0SKSFT6.5E-PA66HS-BK		6.3 - 6.7	0.7 - 1.3	4.6	156.0	35.0	180	1-2;4-7;25	126-00081
OS180AH7S-LH-E-PA66HS-BK		6.8 - 7.2	0.6 - 3.2	5.3	178.4	30.0	180	1;3;6-7;9-10;25	126-00310
T50S0SKSFT5.4E-PA66HS-BK		5.2 - 5.6	0.7 - 1.3	4.6	156.0	35.0	180	1-2;4-7;25	126-00075
T50SST5-PA66HS-BK		6.1 - 6.5	0.70 - 1.50	4.6	170.0	31.0	225	1-2;4-7;25	126-00332
T50SST5-PA66-NA		6.1 - 6.5	0.7 - 1.5	4.6	170.0	31.0	225	1-2;4-7;25	126-02300
T50S0SAH7S-E-PA66HS-BK		6.8 - 7.2	-	-	-	-	-	1-2;4-7;25	126-00503

Recommended Tools: 1=MK10-SB, 2=MK20, 3=MK21, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 9=EVO9iHT, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



2-piece fixing ties with arrowhead, with disc

for round holes

Primarily designed for fixing cable harnesses in the automotive industry, their simplicity and ease of use has resulted in these parts being used in other industries, for example aviation, switch gear and white goods manufacturing.

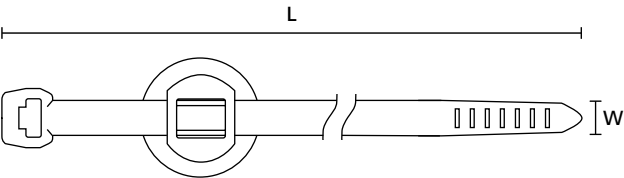
Features and benefits

- Pre-assembled 2-piece fixing tie with arrowhead foot part
- Cable tie head can be moved after bundling
- Easy to assemble without the need for a tool
- Arrowhead simply locks into place
- Disc adjusts tie for pressure from various directions and minimises access of dust and dirt



Being a two-piece assembly allows the tie head to be located in the most convenient position.

Material specifications: See Article-No. on our website.



T50ROSSFT6.5

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Disc Ø	Bundle Ø max.		Tools	Article-No.
T50RSFT6.5-PA66HS-BK		6.3 - 6.7	0.7 - 2.0	4.6	200.0	22.4	45.0	225	1-2;4-7;25	156-01697

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.
All dimensions in mm. Subject to technical changes.



1-piece fixing ties with arrowhead, with disc

for round holes, sealed

The parts are mainly used in the automotive industry. This fastening solution is used to secure cable harnesses e.g. in car doors. We offer a variety of panel thicknesses and hole sizes to suit all kinds of application. The seal protects the interior and surrounding cables among other things from splash water.

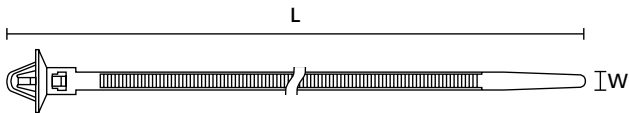
Features and benefits

- One-piece fixing ties with cellular rubber disc
- Especially suitable for door and tailgate harnesses used for car body applications
- Made from PA66 heat-stabilised material
- Cellular rubber disc minimises ingress of dust, dirt and splash water



The additional seal protects against the ingress of moisture.

Material specifications: See Article-No. on our website.



One piece fixing tie with arrowhead and disc, standard design

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T50SOSKSFT5.4E-MD-PA66HS-BK		5.4 - 5.6	0.7 - 1.3	4.6	156.0	35.0	180	2;4-7;25	126-00180
T50SOSSFT6.5E-MD-PA66HS-GY		6.3 - 6.7	0.60 - 1.80	4.6	160.0	35.0	225	1-2;4-7;25	126-00156
T50SOSSFT6.5E-MD-PA66HS-BK		6.3 - 6.7	0.60 - 1.80	4.6	160.0	35.0	225	1-2;4-7;25	126-00215
T50SOSSFT6.5E-MDL-PA66HS-GN		6.3 - 6.7	0.6 - 1.8	4.6	158.8	30.0	225	1-2;4-7;25	126-03100
T50SOSSFT7-E-MD-PA66HS-BK		6.8 - 7.2	0.7 - 1.8	4.7	165.0	30.0	225	1-2;4-7;25	126-00204

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



2-piece fixing ties with arrowhead, with disc

for round holes, sealed

The parts are mainly used in the automotive industry. This fastening solution is used to secure cable harnesses e.g. in car doors. We offer a variety of panel thicknesses and hole sizes to suit all kinds of application. The seal protects the interior and surrounding cables among other things from splash water.

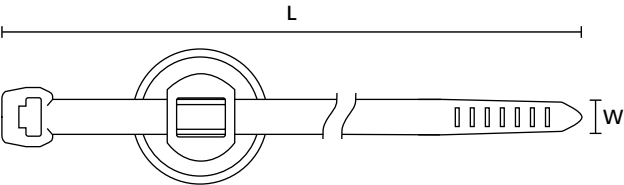
Features and benefits

- Pre-assembled 2-piece fixing tie with arrowhead foot part
- Cable tie head can be moved after bundling
- Easy to assemble without the need for a tool
- Arrowhead simply locks into place
- Disc adjusts tie for pressure from various directions
- Seal protects against splash water
- Versions "SRAH" are coming with a seal made from thermoplastic elastomer (TPE)



The additional seal protects against the ingress of moisture.

Material specifications: See Article-No. on our website.

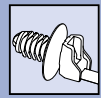


T50ROSSFT6.5-16-2MOD-MD

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T50ROSSFT6.5-16-2MOD-MD-PA66HS/PA66HIRHS-BK/GN		6.3 - 6.7	0.7 - 1.8	4.6	200.0	45.0	225	1-2;4-7;25	150-93129

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



1-piece fixing ties with arrowhead, with disc

for oval holes

With a diverse range of fixing possibilities are ideal for use in many different industries, including automotive, aerospace and panel building.

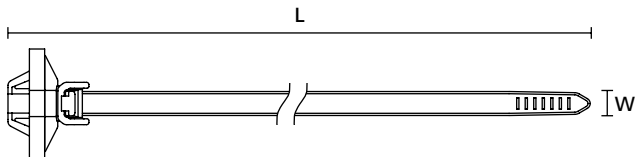
Features and benefits

- Easy to install without the need for a tool
- Arrowhead simply locks into place
- Disc adjusts tie for pressures from various directions and minimises access of dust and dirt
- Cable tie head always situated in a defined position
- Versions for oval holes feature anti-twist protection



1-piece fixing ties with arrowhead, with disc for oval holes.

Material specifications: See Article-No. on our website.



Reference drawing for dimensions only.

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Disc Ø	Bundle Ø max.	N	Article-No.
HB010-01090-PA66/6HIRHS-GY		-	-	-	-	-	-	-	126-00766
OS130-SPM712-PA66HSW-BK		7.0 x 12.0	0.55 - 1.0	5.0	130.0	16.0 x 21.0	20.0	150	126-00252
OS170-PM712-PA66HSUV-BK		7.0 x 12.0	0.60 - 1.60	5.0	170.0	16.0 x 21.0	30.0	150	126-00131
T50SOSKSFT62x122PT0.7-1.3 90°-PA66HS-BK		6.2 x 12.2	0.7 - 1.3	4.6	158.0	16.0 x 21.0	35.0	225	126-00143
T60SOSSFT712S-E1-PA66HS-BK		7.0 x 12.0	0.6 - 3.2	5.5	158.0	16.0 x 22.0	30.0	300	126-00281
T60SOSSFT712S-E-PA66HS-BK		7.0 x 12.0	0.6 - 3.2	5.5	158.0	16 X 22	30.0	300	126-00207

Recommended Tools: 1=MK10-SB, 2=MK20, 3=MK21, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 9=EVO9iHT, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



1-piece fixing ties with arrowhead, with disc

for oval holes, sealed

The parts are mainly used in the automotive industry, e.g. for door harnesses.

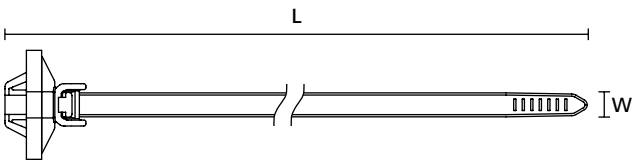
Features and benefits

- Easy to assemble without the need for a tool
- Arrowhead simply locks into place
- Disc adjusts the tie for pressures from various directions
- Cable tie head always situated in defined position
- Cellular rubber seal minimises access of dust and dirt
- SFT versions for oval holes feature anti-twist protection



Fixing bracket for an oval hole with a seal for protection against e.g. dust and splash water.

Material specifications: See Article-No. on our website.

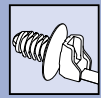


Reference drawing for dimensions only.

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Disc Ø	Bundle Ø max.	N	Tools	Article-No.
OS200DB-PM712V-PP-BK		7.0 x 12.0	0.5 - 2.5	5.6	200.0	16.0 x 21.0	40.0	150	-	126-00464
T60SOSSFT62x122-E-MD-PA66HS-BK		6.2 x 12.2	0.6 - 2.0	5.5	157.5	16.0 x 22.0	30.0	300	3;6-7;9-10;25	126-00080
T60SOSSFT70x120-E-MD-PA66HS-BK		7.0 x 12.0	0.6 - 2.0	5.5	157.7	16.0 x 22.0	30.0	300	3;6-7;9-10;25	126-00079
T60XSOSFT7x12-E-MD-PA66HS-BK		7.0 x 12.0	0.6 - 2.0	-	-	-	25.0	-	-	126-00287
OS150-PM712-WPJ-PA66HS-NA		7.0 x 12.0	0.60 - 2.00	5.0	150.0	17.0 x 22.0	22.0	180	1;3;6-7;9-10;25	126-00165

Recommended Tools: 1=MK10-SB, 3=MK21, 7=EVO9i, 9=EVO9iHT, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



1-piece fixing ties with arrowhead, with wings

for round holes

For bundling and fixing of cable harnesses, pipes and hoses in many different industries, including automotive, aerospace, white goods manufacturing and panel building.

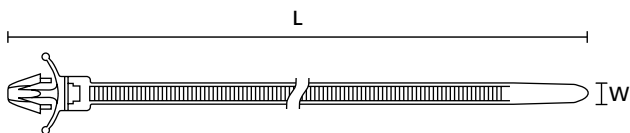
Features and benefits

- Easy to assemble without the need for a tool
- Cable tie head always situated in defined position
- Arrowhead simply locks into place
- Supporting legs provide a secure and firm fixing in areas where space is limited



A wide range of arrowhead fixing ties which are suitable for different panel thicknesses and hole diameters.

Material specifications: See Article-No. on our website.



T50SSL5

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T50SSFM-PA66-NA		6.0 - 6.6	0.7 - 3.0	4.6	160.0	35.0	225	1-2;4-7;25	126-00069
T50RSFM-PA66HS-BK		6.0 - 6.6	0.7 - 3.0	4.6	205.0	45.0	225	1-2;4-7;25	126-00123
T50SSL5-PA66HS-BK		6.1 - 6.5	0.5 - 2.7	4.6	135.0	27.0	225	1-2;4-7;25	126-02204
T50SSFM-PA66HS-BK		6.0 - 6.6	0.7 - 3.0	4.6	160.0	35.0	225	1-2;4-7;25	126-00125
T50SSF-PA66V0-WH		6.0 - 7.5	0.7 - 2.6	4.8	130.0	26.0	223	1-2;4-5;25	126-00361
T50SAH-PA66HS-NA		6.0 - 6.6	0.7 - 3.0	4.6	160.0	25.0	225	1-2;4-5;25	155-41102
T18RWPM-PA66-BK		4.8 - 5.6	1.5 - 3.2	2.5	113.0	22.0	80	1-2;4-5;25	126-00077
T18RWPM-PA66-NA		4.8 - 5.6	1.5 - 3.2	2.5	113.0	22.0	80	1-2;4-5;25	126-00078
T50XWPM7.0-PA66HS-BK		6.8 - 7.2	0.70 - 3.00	4.6	140.0	27.0	225	1-2;4-5;25	126-00168
T50RWPM7.0-PA66HS-BK		6.8 - 7.2	0.7 - 3.0	4.6	200.0	45.0	225	1-2;4-5;25	126-00169
OS150-WPM712-PA610-BK		7.0 x 12.0	1.2 - 3.5	6.0	150.0	26.0	150	1;3;6-7;9-10;25	126-00273

Recommended Tools: 1=MK10-SB, 2=MK20, 3=MK21, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 9=EVO9iHT, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

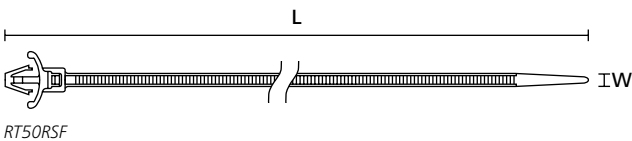
All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



for round holes, releasable



PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
RT50RSF-PA66-BK		7.8 - 8.2	0.8 - 2.5	4.6	215.0	50.0	225	2;4-5;25	115-07010
RT50SFK-PA66-BK		6.4 - 7.0	0.8 - 3.0	5.0	225.0	50.0	225	3;6-7;9-10;25	115-06960
LRT18RWPM4.8-PA66-NA		4.7 - 4.9	0.4 - 2.0	2.5	110.0	20.0	100	1-2;4-5;25	126-00195
RT18RSF-PA66-NA		3.8 - 4.2	0.6 - 2.30	3.0	132.0	27.0	80	1-2;4-5;25	115-01900
RT30SSF5-PA66-NA		4.7 - 5.0	0.5 - 2.3	3.3	130.0	27.0	196	1-2;4-5;25	115-00067
RT50RSF-PA66W-BK		6.3 - 7.5	0.80 - 2.60	4.8	200.0	48.0	225	1-2;4-5;25	115-00076

Recommended Tools: 1=MK10-SB, 2=MK20, 3=MK21, 4=MK3PNSP2, 5=EVO7i, MK7P, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 310.

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



1-piece fixing ties with arrowhead, with wings in the strap

for round holes

This range of fixing ties is ideal for use in many different industries, including automotive, aerospace and panel building. The T80RSF6.5FW features a detent that fits securely into the profile of the tubing which prevents from lateral movement and slipping.

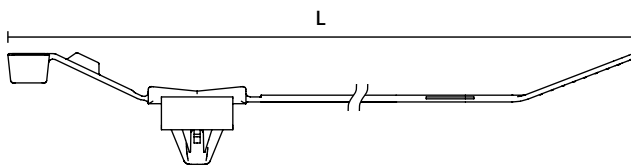
Features and benefits

- Easy to assemble without the need for a tool
- Arrowhead simply locks into place
- Supporting legs provide a secure and firm fixing when space is limited
- Bundle runs central across fixing point
- Cable tie head always situated in defined position



Designed to secure cables with parallel bundling the T80RSF6.5F offers a simple and secure fixing.

Material specifications: See Article-No. on our website.



T80RSF6.5FW

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T80RSF6.5F-PA66HS-BK		6.3 - 6.5	0.6 - 3.0	4.7	209.0	50.0	355	1-2;4-7;25	126-02600

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.

1-Piece Fixing Ties with Arrowhead, with Wings, for Squared Holes

PART DESCRIPTION	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
OS100-SPM46S-PA66HSW-BK	4.0 x 6.0	1.0 - 2.0	3.5	100.0	15.0	100	1-2;4-5;25	126-00372

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



1-piece fixing ties with arrowhead

without wings and disc, for round holes

The arrowhead design is usefull in areas with limited space.

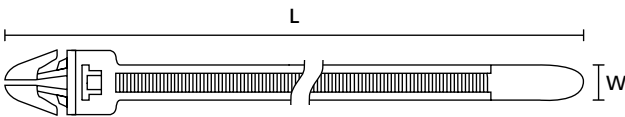
Features and benefits

- Easy to assemble without the need for a tool
- Fixing tie with arrowhead without wings
- Arrowhead simply locks into place
- Cable tie head always situated in defined position



The arrowhead design allows these fixing ties to be used in areas with limited space.

Material specifications: See Article-No. on our website.



T30RSF

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.		Tools	Article-No.
T30RSF(U)-PA66HS-BK		4.7 - 5.6	0.75 - 2.1	3.6	158.0	32.0	136	1-2;4-5;25	111-85610
T30RSF(U)-PA66-NA		4.7 - 5.6	0.75 - 2.1	3.6	160.0	32.0	136	1-2;4-5;25	111-85603
T50RSF(U)-PA66-NA		6.4 - 7.1	1.0 - 3.56	4.7	210.8	44.5	225	1-2;4-5;25	126-01011

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



2-piece fixing ties with arrowhead, with disc

for round holes, for parallel routing

Primarily designed for fixing cable harnesses in the automotive industry their simplicity, and ease of use, has seen these parts used in everything from aircraft, to switch-gear, to washing machines.

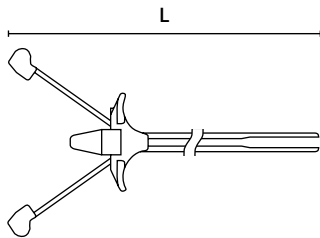
Features and benefits

- Pre-assembled 2-piece fixing tie with arrowhead foot part
- Cable tie head can be moved after bundling
- Easy to assemble without the need for a tool
- Arrowhead simply locks into place

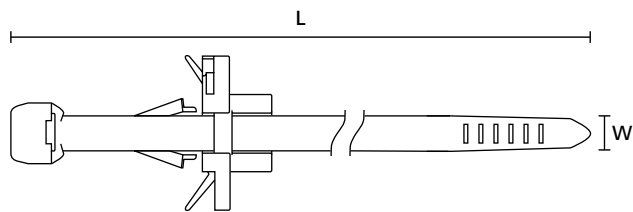


T50SOSDSFT6.5 for parallel routing.

Material specifications: See Article-No. on our website.



T50SOSDSFT6.5



T50SOSDSFT6.5

PART DESCRIPTION	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T50SOSDSFT6.5-PA66HS/PA66HIRHS-BK	6.3 - 6.7	0.7 - 1.5	4.6	150.0	15.0	225	1-2;4-7;25	156-00133

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



1-piece fixing ties with fir tree, with disc, for round holes

Fir tree parts FT5

Primarily designed for fixing cable harnesses in the automotive industry, their simplicity and ease of use has resulted in these parts being used in other industries, for example aviation, switch gear manufacturer, white goods manufacturer.

Features and benefits

- Cable tie head always situated in defined position
- Easy to assemble without the need for a tool
- Disc adjusts tie for pressure from various directions and minimises ingress of dust and dirt
- Fir tree foot part can be used for a variety of panel thicknesses
- Suitable for use within threaded holes
- Parts with an anti-slip engraving, such as the T30SOS-AS-FT5-E, to prevent the harness from slipping sideways



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

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Disc Ø	Bundle Ø max.	N	Tools	Article-No.
T18RDP5-PA66-BK		4.9 - 5.1	3.0 - 4.0	2.5	110.0	13.0	20.0	80	2;4-5;25	150-55610
OS160FT5-PA66HSUV-BK		4.5 - 5.0	1.6 - 3.2	4.0	163.0	13.0	30.0	100	1-2;4-5;25	126-00057

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.
All dimensions in mm. Subject to technical changes.

Fir tree parts FT6

PART DESCRIPTION	Drawing	Hole Ø (FH)	Length (L)	Panel Thickness	Width (W)	Disc Ø	Bundle Ø max.	N	Tools	Article-No.
T50SOSFT6E-PA66HIRHS-BK		6.5 - 7.0	160.0	0.75 - 3.0	4.7	16.0	32.0	150	1-2;4-7;25	155-05800
T50RTM25-PA66HS-BK		6.2 - 7.0	204.7	1.32 - 7.0	4.6	12.6	50.0	225	1-2;4-7;25	126-03501
T50SOSFT6D10E-PA46-GY		5.8 - 6.2	163.0	0.8 - 5.5	4.6	9.8	32.0	200	1-2;4-5;25	157-00028
T50SOSFT6D10E-PA66HS-BK		5.8 - 6.2	163.0	0.8 - 5.5	4.6	9.8	32.0	225	1-2;4-5;25	157-00045
T50SOSFT6E2-PA66HS-BK		6.3 - 7.0	161.0	0.6 - 4.2	4.6	16.0	35.0	180	1-2;4-7;25	157-00136

Recommended Tools: 1=MK10-SB, 2=MK20, 3=MK21, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 9=EVO9iHT, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.
All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



1-piece fixing ties with fir tree, with disc, for round holes

Fir tree parts FT6

PART DESCRIPTION	Drawing	Hole Ø (FH)	Length (L)	Panel Thickness	Width (W)	Disc Ø	Bundle Ø max.	N	Tools	Article-No.
T50SOSFT6.5LG-E4-PA66HIRHS-NA		6.1 - 6.9	167.9	0.6 - 8.25	4.6	16.0	35.0	225	1-2;4-7;25	157-00355
T50SOSFT6LG-E-PA66HS-BK		6.3 - 7.0	165.0	0.7 - 7.0	4.6	16.0	35.0	180	1-2;4-7;25	157-00127
T50SOSFT6.5LG-E4-PA66HIRHSUV-BK		6.35 (hexagonal) 6.5	167.9	0.6 - 8.25	4.6	16.0	35.0	225	1-2;4-7;25	157-00296
OS160FT6-PA66HS-BK		6.3 - 6.7	170.0	0.7 - 5.0	5.3	16.0	30.0	200	1;3;6-7;9-10;25	157-00096
OS160FT6HEX-PA66HS-BK		6.35	170.0	0.7 - 5.0	5.3	16.0	30.0	200	1;3;6-7;9-10;25	157-00081
T50SOSFT6E3-PA66HIRHS-BK		6.1 - 6.9	161.0	0.7 - 3.5	4.7	16.0	35.0	150	1-2;4-7;25	157-00241
T50SOSFT6E1-PA66HS-BK		6.3 - 7.0	161.4	0.7 - 3	4.7	16	35.0	150	1-2;4-5;25	157-00126
T50SOSFT6LG-E2-PA66HIRHSUV-BK		6.1 - 6.9 6.1 - 6.6 (hexagonal)	167.0	0.6 - 8.25	4.6	16.0	35.0	180	1-2;4-7;25	157-00452
T50SOSFT6LG-E4-PA66HS-BK		6.3 - 7.0	165.0	0.8 - 7.0	4.9	22.0	31.0	200	1;3;6-7;9-10;25	157-00237
T50RTM25E-PA66HIRHS-GY		6.25 - 7.0	203.2	2.3 - 13.9	4.7	12.6	50.8	222	1-2;4-7;25	126-03504
T50R6.6TM250-PA66HIRHSUV-BK		M6	202.0	2.3 - 13.9	4.6	12.6	50.0	225	1-2;4-5;25	157-00277
T50SDP6-PA66HIRHS-BK		6.3 - 7.1	170.0	0.8 - 7.0	5.1	22.0	31.0	225	1;3;6-7;9-10;25	157-01100

Recommended Tools: 1=MK10-SB, 2=MK20, 3=MK21, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 9=EVO9iHT, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Fir tree parts FT7

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Disc Ø	Bundle Ø max.	N	Tools	Article-No.
FT220DP7-PA66-BK		6.8 - 7.2	0.8 - 5.0	4.7	232.0	16.0	40.0	225	2;4-5;25	150-01700
OS170-FT7-PA66-BK		6.8 - 7.2	0.6 - 4.5	5.3	170.0	16.0	30.0	147	3;6-7;9-10;25	157-00017
OS180FT7LH-PA66-BK		6.5 - 7.0 6.35 (hexagonal)	0.6 - 4.5	5.3	180.0	16.0	30.0	200	3;6-7;9-10;25	157-00070

Recommended Tools: 2=MK20, 3=MK21, 4=MK3PNSP2, 5=EVO7i, MK7P, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.

Fir tree parts FT8

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Disc Ø	Bundle Ø max.	N	Tools	Article-No.
T50SOSFT8E-PA46-GY		8.0 - 8.5	0.6 - 6.0	4.6	163.0	16.0	35.0	225	1-2;4-7;25	157-00115
T50SOSFT8E-PA66HS-BK		8.0 - 8.5	0.6 - 6.0	4.6	163.0	16.0	35.0	225	1-2;4-7;25	157-00072

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

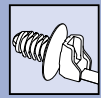
All dimensions in mm. Subject to technical changes.

Fir tree parts FT12

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Disc Ø	Bundle Ø max.	N	Tools	Article-No.
T60SOSFT12-E-PA66HS-BK		12.0 - 12.5 M14 x 1.5	1.0 - 6.0	5.5	161.5	20.0	30.0	300	1;3;6-7;9-10;25	157-00533

Recommended Tools: 1=MK10-SB, 3=MK21, 7=EVO9i, 9=EVO9iHT, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



1-piece fixing ties with fir tree, with disc

for oval holes

Primarily designed for fixing cable harnesses in the automotive industry their simplicity, and ease of use, has seen these parts used in everything from aircraft, to switch-gear, to washing machines.

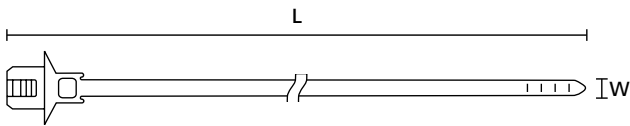
Features and benefits

- Cable tie head always situated in defined position
- Easy to assemble without the need for a tool
- Disc adjusts tie for pressure from various directions and minimises access of dust and dirt
- Fir tree foot part can be used for a variety of panel thicknesses
- Suitable for use within threaded holes
- Versions for oval holes feature anti-twist protection



This 1-piece fixing tie with fir tree design for oval holes features anti-twist protection.

Material specifications: See Article-No. on our website.



1-piece fixing tie with fir tree, with disc, for oval holes

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
OS180FT62122A-PA66HS-BK		6.2 x 12.2	0.7 - 3.0	5.1	180.0	33.0	225	1;3;6-7;9-10;25	157-00104
OS180FT65113-PA66HS-BK		6.5 x 13.0	0.7 - 5.2	5.1	180.0	33.0	225	1;3;6-7;9-10;25	157-00087
T50ROSFTOVALR-PA66HIRHSUV-BK		6.2 x 12.2 6.5 x 12.5 6.5 x 13.0 7.0 x 12.0	0.6 - 6.0	5.1	218.4	50.0	222	1;3;6-7;9-10;25	157-00232
T50ROSFTSOVAL-PA66HIRHSUV-BK		6.2 x 12.2 6.5 x 12.5 6.5 x 13.0 7.0 x 12.0	0.6 - 3.0	4.7	215.9	50.0	225	1-2;4-7;25	157-00268
T50SOS2DOP62X122-E-PA46-GY		6.2 x 12.2	0.6 - 6.0	4.6	164.0	35.0	200	1-2;4-5;25	157-00069
T50SOS2DOP62X122-E-PA66HS-BK		6.2 x 12.2	0.6 - 6.0	4.6	164.0	35.0	225	1-2;4-5;25	157-00014
T50SOS3DOP65X130-E-PA66HS-BK		6.5 x 13.0	0.7 - 5.0	4.6	165.0	35.0	180	1-2;4-7;25	126-00200
T50SOS2DOP7X12-E-PA66HS-BK		7.0 x 12.0	0.6 - 6.0	4.6	164.0	35.0	225	1-2;4-5;25	157-01105
T50ROSFTOVALU-PA66HIRHSUV-BK		6.2 x 12.2 6.5 x 12.5 6.5 x 13.0 7.0 x 12.0	0.6 - 6.75	5.1	219.0	50.0	225	1;3;6-7;9-10;25	157-00142

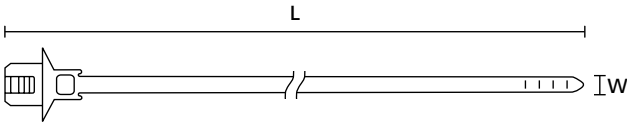
Recommended Tools: 1=MK10-SB, 2=MK20, 3=MK21, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 9=EVO9iHT, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



1-piece fixing ties with fir tree, with disc

for oval holes



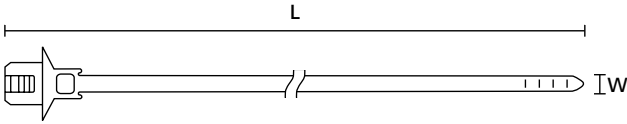
1-piece fixing tie with fir tree, with disc, for oval holes

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T50SOS-AS-DFTOVAL-E-PA66HIRHS-BK		6.5 x 12.5	0.6 - 6.75	4.6	166.4	35.0	180	1-2;4-5;25	157-00414
T50SOSFT7X12-PA66HIRHS-GY		7.0 x 12.0	0.8 - 14.5	4.8	157.0	50.0	222	-	133-02810

Recommended Tools: 1=MK10-SB, 2=MK20, 3=MK21, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 9=EVO9iHT, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.

for oval holes



1-piece fixing tie with fir tree, with disc, for oval holes

PART DESCRIPTION	Drawing	Article-No.
OS180FT6513-PA66HS-BK		920-30026

All dimensions in mm. Subject to technical changes.



1-piece fixing ties with fir tree, with disc

for round holes, releasable

This fir tree design is ideal for use in thick panels and threaded, blind holes. The additional disc avoids the intrusion of dust and dirt.

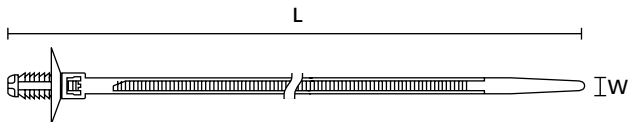
Features and benefits

- Cable tie head always situated in defined position
- Easy to assemble without the need for a tool
- Disc adjusts tie for pressure from various directions and minimises access of dust and dirt
- Suitable for use within threaded holes
- Reusable - Less waste and less pollution of the environment



REL30SDP6.

Material specifications: See Article-No. on our website.



Reference for dimensions only.

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Disc Ø	Bundle Ø max.	N	Tools	Article-No.
REL30SDP6-PA66-BK		6.3 - 7.1	3.0 - 7.0	5.0	170.0	22.0	31.0	135	3;6-7;9-10;25	150-55500

Recommended Tools: 3=MK21, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



1-piece fixing ties with fir tree, with disc, with stand-off, for round holes

With offset 12.5 and 25.0 mm

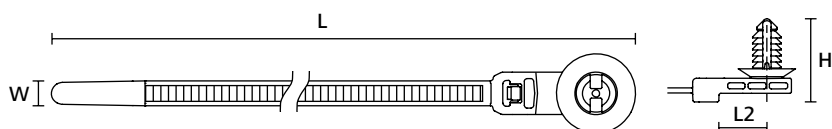
Features and benefits

- Bundling and fixing solution
- Ideal combination of materials and design
- Different positions of the fixing anchor are available to fit installation space

Material specifications: See Article-No. on our website.



Designed for optimal spacing: the integrated stand-off in this 1-piece fixing tie ensures secure cable routing while preventing contact with surfaces, ideal for high-performance applications.



PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Length (L2)	Bundle Ø max.	N	Article-No.
T50ROSFT6S25SO-PA66HIRHSUV-BK		6.1 - 6.9	0.6 - 3.75	5.1	242.2	25.0	50.0	225	157-00197
T50ROSFT612.5SO-PA66HIRHS-BK		6.1 - 6.9	0.6 - 6.0	5.1	234.2	12.5	50.0	220	157-04099
T50ROSFT612.5SO-PA66HIRHSUV-BK		6.1 - 6.9	0.6 - 6.0	5.1	234.2	12.5	50.0	220	157-00216
T50ROSFT612.5SO-PA46-BN		6.1 - 6.9	0.6 - 6.0	5.1	234.2	12.5	50.0	225	157-02517
T50ROSFT625SO-PA66HIRHSUV-BK		6.1 - 6.9	0.6 - 8.25	5.1	247.2	25.0	50.0	222	157-00195
T50ROSFT5SO25A-PA66HIRHS-GY		4.8 - 5.2	0.6 - 5.1	5.1	230.0	25.0	50.0	225	157-00167
T50ROSFT6SO12.5A-PA66HIRHSUV-BK		6.1 - 7.0 6.35	0.6 - 6.65	4.7	215.5	12.5	50.0	225	157-00331
T50ROSFT6SO12.5A-PA66HIRHS-GY		6.1 - 7.0 6.35	0.6 - 6.65	5.1	215.9	12.5	50.0	225	157-00130
T50ROSFT6SO25A-PA66HIRHSUV-BK		6.1 - 7.0 6.35	0.6 - 6.65	5.1	230.0	25.0	50.0	222	157-00150
T50ROSFT6SO25A-PA66HIRHS-GY		6.1 - 7.0 6.35	0.6 - 6.65	5.1	230.0	25.0	50.0	225	157-00119
T50ROSFTM6SO12.5A-PA66HIRHS-GY		M6	0.6 - 5.5	4.7	215.5	12.5	50.0	222	157-00118
T50ROSFTM6SO25B-PA66HIRHSUV-BK		M6	0.6 - 5.5	4.6	230.0	25.0	50.0	222	157-00172
T50ROSFT6SO12.5R-PA66HIRHSUV-BK		6.1 - 7.0 6.35	0.6 - 8.25	5.1	223.3	12.5	50.0	225	157-00165
T50ROSFT8SO12.5R-PA66HIRHSUV-BK		7.6 - 8.4	0.6 - 8.75	5.1	223.5	12.5	50.0	225	157-00215

Recommended Tools: 1=MK10-SB, 2=MK20, 3=MK21, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 9=EVO9iHT, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



1-piece fixing ties with fir tree, with disc, with stand-off, for oval holes

with offset 12.5 and 25.0 mm

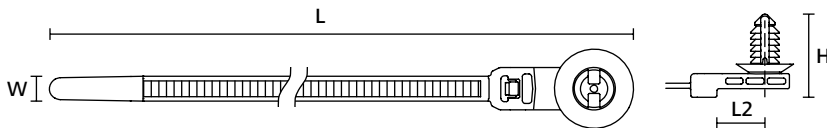
Features and benefits

- Bundling and fixing solution
- Ideal combination of materials and design
- Different positions of the fixing anchor are available to fit installation space
- 1-Piece Fixing Tie with defined offset 12.5 and 25.0 mm

Material specifications: See Article-No. on our website.



One piece fixing tie T50ROSFTOVALIL25A with stand-off for oval holes.



PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Length (L2)	Bundle Ø max.	N	Article-No.
T50ROSFTOVAL25SO-PA66HIRHSUV-BK		6.2 x 12.2 6.5 x 12.5 6.5 x 13.0 7.0 x 12.0	0.6 - 6.75	5.1	243.8	25.0	50.0	222	157-00219
T50ROSFTOVAL25A-PA66HIRHS-GY		6.2 x 12.2 6.5 x 12.5 6.5 x 13.0 7.0 x 12.0	0.6 - 6.75	4.7	229.3	25.0	50.0	222	157-00205
T50ROSFTOVAL25A-PA66HIRHSUV-BK		6.2 x 12.2 6.5 x 12.5 6.5 x 13.0 7.0 x 12.0	0.6 - 6.75	4.7	229.3	25.0	50.0	225	157-00222
T50ROSFTOVAL12.5A-PA66HIRHSUV-BK		6.2 x 12.2 6.5 x 12.5 6.5 x 13.0 7.0 x 12.0	0.6 - 6.75	-	-	-	50.0	225	157-04155
T50ROSFTOVAL12.5SO-PA66HIRHSUV-BK		6.2 x 12.2 6.5 x 12.5 6.5 x 13.0 7.0 x 12.0	0.6 - 6.75	5.1	231.3	12.5	50.0	222	157-00218
T50ROSFTOVAL25R-PA66HIRHSUV-BK		6.2 x 12.2 6.5 x 12.5 6.5 x 13.0 7.0 x 12.0	0.6 - 6.75	5.1	237.4	25.0	50.0	222	157-00221

Recommended Tools: 1=MK10-SB, 2=MK20, 3=MK21, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 9=EVO9iHT, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



2-piece fixing ties with fir tree, with disc, for round holes

Fir tree parts FT4

Primarily designed for fixing cable harnesses in the automotive industry their simplicity and ease of use has seen these parts used in everything from aircraft, to switch-gear, to washing machines.

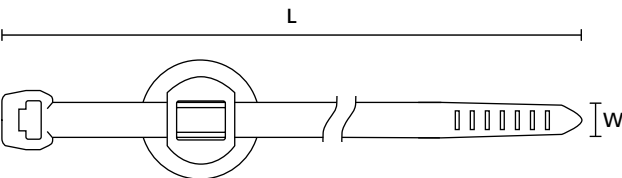
Features and benefits

- Pre-assembled 2-piece fixing tie with fir tree foot part
- Cable tie head can be moved after bundling
- Easy to assemble without the need for a tool
- Disc adjusts tie for pressure from various directions and minimises ingress of dust and dirt
- Fir tree foot part can be used for a variety of panel thicknesses
- Suitable for use within threaded holes



Disc feature prevents rattling in high-vibration applications and protects against debris ingress.

Material specifications: See Article-No. on our website.



T50ROSSFT6.5

PART DESCRIPTION	Hole Ø (FH)	Width (W)	Length (L)	Bundle Ø max.		Article-No.
T30RFT4-PA66HS/PA66HSUV-BK	3.3 - 4.0	3.5	150.0	35.0	135	920-30071

All dimensions in mm. Subject to technical changes.

Fir tree parts FT5

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.		Tools	Article-No.
T30RFT5-PA46-NA/GY		4.5 - 5.0	0.7 - 3.0	3.5	150.0	34.0	135	1-2;4-5;25	150-55948

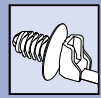
Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.

Fir tree parts FT5

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.		Article-No.
T30RFT5-PA46-GY/NA		4.5 - 5.0	0.7 - 3.0	3.5	150.0	34.0	135	920-30054
T30RFT5-PA66HS/PA66HIRHS-BK		4.5 - 5.0	0.7 - 3.0	3.5	150.0	34.0	135	920-30018

All dimensions in mm. Subject to technical changes.



Fir tree parts FT5

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Article-No.
IN5FT50-PA66HS-BK		4.5 - 5.0	0.7 - 3.0	4.6	202.0	45.0	225	920-30006

All dimensions in mm. Subject to technical changes.

Fir tree parts FT5

PART DESCRIPTION	Width (W)	Length (L)	Article-No.
REZ200FT5-PA66/PA66HIRHS-BK	4.7	200.0	920-30028

All dimensions in mm. Subject to technical changes.

Fir tree parts FT6

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T30RFT6LG-PA66HS/PA66HIRHS-BK		6.5 - 7.0	0.75 - 6.0	3.5	150.0	30.0	135	1-2;4-5;25	150-31090
T50RFT6LG-PA46-GY		6.5 - 7.0	0.75 - 6.0	4.6	200.0	45.0	222	1-2;4-7;25	150-31098
T50ROSFT6LG-PA66HS-BK		6.5 - 7.0	0.75 - 6.0	4.6	200.0	45.0	225	1-2;4-7;25	156-00371
T50RFT6LG-PA66HS/PA66HIRHS-BK		6.5 - 7.0	0.75 - 6.0	4.6	202.0	45.0	225	1-2;4-7;25	150-31091
T30RFT6SD-PA66HS/PA66HIRHS-BK		6.4 - 7.1	0.75 - 3.0	3.5	150.0	35.0	135	1-2;4-5;25	150-52690
T50RFT6-PA46-GY		6.4 - 7.1	0.75 - 3.0	4.6	202.0	45.0	225	1-2;4-7;25	156-00466
T50RFT6-PA66HS/PA66HIRHS-BK		6.4 - 7.1	0.75 - 3.0	4.6	202.0	45.0	225	1-2;4-7;25	157-00633
T50RDHFT6-PA66HS/PA66HIRHS-BK		6.4 - 7.1	0.75 - 3.0	4.7	210.0	19.0	180	1-2;4-7;25	150-77936
T30RFT6-PA46-GY		6.4 - 7.1	0.75 - 3.00	3.5	150.0	34.0	135	1-2;4-5;25	156-02905
T30RFT6-PA66HS/PA66HIRHS-BK		6.4 - 7.1	0.75 - 3.00	3.5	150.0	34.0	135	1-2;4-5;25	156-02827
T50RSOC15FT6LG-PA46-GY		6.4 - 7.1	0.8 - 6.0	4.6	202.0	50.0	225	1-2;4-5;25	156-00657
DT50RDHFT6XLG-PA66HS/PA66HIRHS-BK		6.3 - 6.7	1.2 - 8.5	4.6	200.0	45.0	225	1-2;4-5	156-02972

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.

Fir tree parts FT6



2-piece fixing ties with fir tree, with disc, for round holes

Fir tree parts FT6

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Article-No.
IN5FT60-PA66HS/PA66HIRHS-BK		6.4 - 7.1	0.75 - 3.0	4.6	202.0	45.0	225	920-30007

All dimensions in mm. Subject to technical changes.

Fir tree parts FT6

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Article-No.
T50ROSFT6LG-PA66HS/PA66HIRHS-BK		6.4 - 7.1	0.75 - 6.0	4.6	200.0	45.0	225	920-30058

All dimensions in mm. Subject to technical changes.

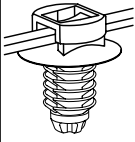
Fir tree parts FT6

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Article-No.
T30RFT6LG-PA66HS/PA66HIRHS-BK		6.4 - 7.1	0.75 - 6.00	3.6	148.0	30.0	135	920-30010

All dimensions in mm. Subject to technical changes.



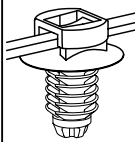
Fir tree parts FT7

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T50RFT7-PA66HS-BK		6.5 - 7.0	0.8 - 7.0	4.6	202.0	45.0	225	1-2;4-7;25	156-02828

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

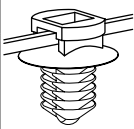
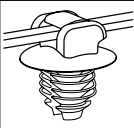
All dimensions in mm. Subject to technical changes.

Fir tree parts FT7

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Article-No.
T50ROSFT7-PA66HS-BK		6.5 - 7.0	0.8 - 7.0	4.6	200.0	45.0	225	920-30012

All dimensions in mm. Subject to technical changes.

Fir tree parts FT8

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T30RFT8-PA66HS-BK		7.7 - 8.0	0.80 - 6.00	3.6	150.0	31.0	135	1-2;4-5;25	156-03701
T50LFT8-PA66HS-BK		7.7 - 8.0	0.80 - 6.00	4.7	380.0	105.0	225	1-2;4-7;25	156-03703
T40RFT8GSD-PA66HS/PA66HIRHS-BK		8.0 - 8.5	1.5 - 4.0	4.0	180.0	40.0	180	1-2;4-5;25	156-00104
T50RFT8GSD-PA46-GY		8.0 - 8.5	1.5 - 4.0	4.6	202.0	45.0	225	1-2;4-7;25	156-00235
T50RFT8GSD-PA66HS/PA66HIRHS-BK		8.0 - 8.5	1.5 - 4.0	4.6	202.0	45.0	225	1-2;4-7;25	133-00034

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



Cable Ties and Fixings

Fixing products for holes

Fir tree parts FT8

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Article-No.
T50ROSFT8-PA66HS-BK		7.7 - 8.0	0.8 - 6.0	4.6	200.0	35.0	225	920-30033

All dimensions in mm. Subject to technical changes.

Fir tree parts FT9

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T150RFT9-PA66HS/PA66HIRHS-BK		9.0 - 10.6	5.0 - 11	7.6	365.0	100.0	670	1;3;6-7;9-10;25	156-00845
T50RFT9LP-PA66HS/PA66HIRHS-BK		8.8 - 9.2	0.80 - 9.00	4.6	200.0	45.0	225	1-2;4-5;25	156-01201
WSSFT9A-PA66HIRHSUV-BK		8.7 - 9.2	1.0 - 6.5	12.7	228.0	57.0	535	3;5-7;9-10	156-00068
T150RFT9B-PA66HS/PA66HIRHS-BK		8.8 - 9.2	-	-	-	-	-	1;3;6-7;9-10;25	156-02813

Recommended Tools: 1=MK10-SB, 2=MK20, 3=MK21, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 9=EVO9iHT, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.

Fir tree parts FT10

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T50RFT10-PA66HS-BK		9.7 - 10.0	0.80 - 5.0	4.6	200.0	45.0	225	1-2;4-7;25	156-02817

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



2-piece fixing ties with fir tree, with disc, for round holes

Unassembled Parts

Primarily designed for fixing cable harnesses in the automotive industry their simplicity, and ease of use, has seen these parts used in everything from aircraft, to switch-gear, to washing machines.

Features and benefits

- Pre-assembled 2-piece fixing tie with fir tree foot part
- Cable tie head can be moved after bundling
- Easy to assemble without the need for a tool
- Disc adjusts tie for pressure from various directions and minimises ingress of dust and dirt
- Fir tree foot part can be used for a variety of panel thicknesses
- Suitable for use within threaded holes



These fir tree fixings can also be used in threaded, blind holes.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Disc Ø	Bundle Ø max.	N	Tools	Article-No.
T50RFT9SET-PA66HS/PA66HIRHS-BK		-	-	-	-	-	-	-	2-7	156-00159
T50RFT6LG-PA66HS/PA66HIRHS-BK		-	-	-	-	-	-	-	-	150-00613
T50RFT6LG1SDSET-PA66HS/PA66HIRHS-BK		6.5 - 7.0	-	-	202.0	16.0	45.0	225	1-2;4-7;25	156-00186
T50ROSFT13SET-PA66HS/PA66HIRHS-BK		13.0	0.7 - 10.0	4.6	200.0	-	50.0	225	1-2;4-7;25	156-01471
T30RATSFT5LGSET-PA66HS/PA66HIRHS-BK		4.5 - 5.0	0.7 - 8.0	-	-	-	35.0	-	2;4-5	156-00336

Recommended Tools: 1=MK10-SB, 2=MK20, 3=MK21, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



2-piece fixing ties with fir tree, with disc

for oval holes

Primarily designed for fixing cable harnesses in the automotive industry their simplicity, and ease of use, has seen these parts used in everything from aircraft, to switch-gear, to washing machines.

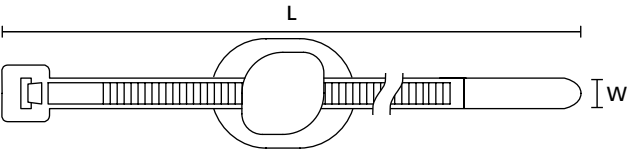
Features and benefits

- Pre-assembled 2-piece fixing tie with fir tree foot part
- Cable tie head can be moved after bundling
- Easy to assemble without the need for a tool
- Disc adjusts tie for pressure from various directions and minimises access of dust and dirt
- Fir tree foot part can be used for a variety of panel thicknesses
- Suitable for use within threaded holes
- DOP versions for oval holes feature anti-twist protection



Two piece fixing tie T50ROSFTOVAL-B with fir tree for oval holes.

Material specifications: See Article-No. on our website.



PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T50RFTOVAL-A-PA66HS/PA66HIRHS-BK		6.2 x 12.2	0.60 - 5.00	4.6	200.0	50.0	225	1-2;4-5;25	156-01464
		6.5 x 12.5							
		6.5 x 13.0							
		7.0 x 12.0							
T50RFTOVAL-A-PA46-GY		6.2 x 12.2	0.6 - 5.0	4.6	200.0	50.0	225	1-2;4-5;25	156-01465
		6.5 x 12.5							
		6.5 x 13.0							
		7.0 x 12.0							
T50ROSFTOVAL-B-PA66HS/PA66HIRHS-BK		6.2 x 12.2	0.60 - 6.00	4.6	200.0	50.0	225	1-2;4-5;25	156-01519
		6.5 x 12.5							
		6.5 x 13.0							
		7.0 x 12.0							

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7I, MK7P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



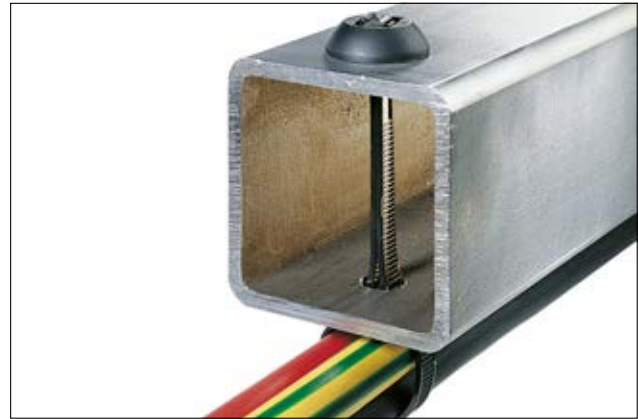
Cable ties for single hole application

Chassis ties

Using a single hole these 'chassis ties' are widely used in the automotive, truck and heavy equipment markets. Ideal for applications which have access to both sides of the hole - example truck frame rails.

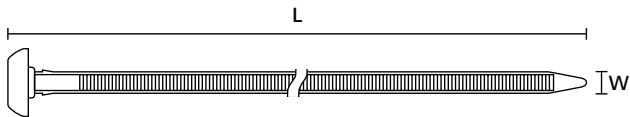
Features and benefits

- Both sides serrated cable tie
- BHT-Series with round head for larger bearing area
- BHT375 for centred position
- CT- and LHT-Series with small squared head for restricted space areas
- Tensioning with application tool



BHT375 - used for mounting cables via a single hole.

Material specifications: See Article-No. on our website.



BHT375

PART DESCRIPTION	Drawing	Width (W)	Length (L)	Bundle Ø max.	N	Pack Cont.	Tools	Article-No.
BHT375M-PA66HS-BK		7.6	375.0	100.0	700	250 pcs.	3;6-7;9-10;25	150-47595

Recommended Tools: 3=MK21, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.
All dimensions in mm. Subject to technical changes.



Arrowhead cradle

SF/TM-Series

Offering simple and easy methods of securing cables or pipes, these fixing accessories have many applications within a wide range of industries.

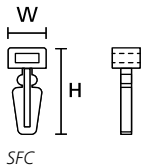
Features and benefits

- Arrowhead fixing for use in pre-drilled or punched holes
- Ideal for applications with limited space and restricted access
- Parts with disc protect against dirt and dust



TM1SF for secure fixing of cables into pre-drilled or pre-punched holes.

Material specifications: See Article-No. on our website.



PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Strap Width max. (G)	Article-No.
SFC3-F-PA66UV-BK		6.4	2.0 - 3.3	22.0	16.8	6.5	151-00340

Recommended Tools: 7=EVO9i, 9=EVO9iHT, 10=MK9P. For more information on toolings please refer to the Application Tooling chapter on page 310.
All dimensions in mm. Subject to technical changes.

EN 45545-2

Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Fixing elements with fir tree, for distance routing

Saddle mount

These heavy duty fixing offers excellent performance for ship building and the truck and construction vehicle industries.

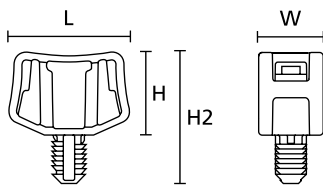
Features and benefits

- For parallel routing of four bundles
- Secure alignment to the bundle due to H-design
- For cable ties up to 13.0 mm wide
- Pre-fixing of tie with integrated nose



The mount can secure up to four separate bundles, providing parallel spacing between the frame rail and adjacent bundles.

Material specifications: See Article-No. on our website.



Fir Tree Saddle Mounts

PART DESCRIPTION	Hole Ø (FH)	Panel Thickness	Strap Width max. (G)	Bundle Ø max.	Width (W)	Length (L)	Height (H)	Height (H2)	Pack Cont.	Article-No.
S3STM50-PA66HIRHS-BK	12.7 - 13.7	1.9 - 13.0	13.0	127.0	22.0	50.0	35.0	55.0	100 pcs.	151-29500

All dimensions in mm. Subject to technical changes.



Fixing elements for BHT-ties for distance routing

MSBT120

These heavy duty fixing offers excellent performance for ship building and the truck and construction vehicle industries.

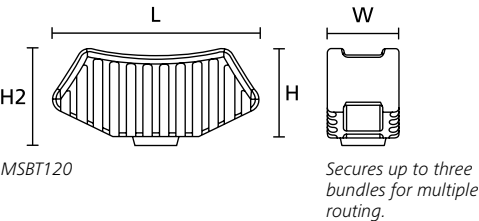
Features and benefits

- For parallel routing of three bundles
- Retainer is fixed in the hole with BHT-tie
- Socket centres retainer in the hole and can protect tie from sharp edges



Saddle Mount MSBT120.

Material specifications: See Article-No. on our website.



PART DESCRIPTION	Drawing	Width (W)	Length (L)	Height (H)	Height (H2)	Hole Ø (FH)	Panel Thickness	Pack Cont.	Article-No.
MSBT120-PA66HIRHS-BK		16.5	48.3	20.6	22.2	11.2 - 20.8	4.1 - 19.1	500 pcs.	151-29301

All dimensions in mm. Subject to technical changes.



Automatic bundling

Fir tree clips for automatic cable tying systems

Features and benefits

- Clips to fix cables and harnesses in the automotive and white goods industries
- Optimized for use automatic cable tying systems
- Easy to apply
- The fixing elements can be tied automatically with Autotool System



Fixing elements for automatic bundling.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Article-No.
ATSFT5LG-PA66HIRHS-BK		4.5 - 5.0	0.7 - 8.0	102-67050

All dimensions in mm. Subject to technical changes.

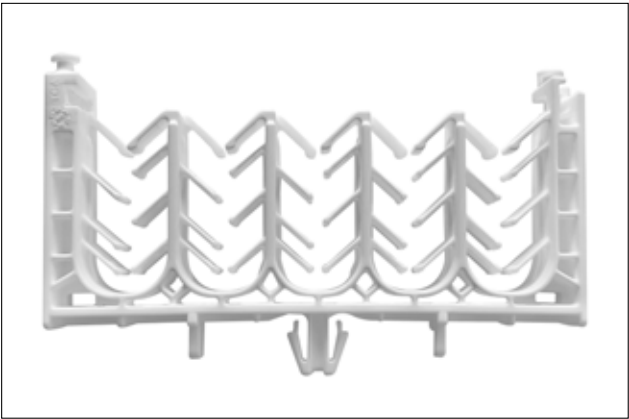


LadderClamp

for installation on cable ladders

Features and benefits

- Time saving
- Quick installation
- Ergonomic installation saves the installers shoulders
- No waste
- Fix the cables in place
- Reusable
- No tool needed
- Fits to cable ladders of brand MP-bolagen and Wibe
- Ladder clamp made of polypropylene (PP) offers a lower CO₂ footprint compared to PA66 making it a more sustainable choice without compromising on performance



Material specifications: See Article-No. on our website.

PART DESCRIPTION	Width (W)	Length (L)	Height (H)	Pack Cont.	Article-No.
LC5-8-10SFT8.5-PP-WH	15.0	95.0	85.0	50 pcs.	151-04121

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Rivet mount

TY5-Series

The TY Fixings are ideal for use where a high pull out force is required (eg. in the aircraft industry). The two piece 'wedge' ensures that once installed the mounts will not come away from the panel. Particularly designed for areas with restricted access.

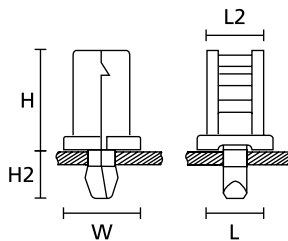
Features and benefits

- Quick installation
- Two-piece wedge
- Easy insertion
- Firmly fixes wide variety of cable ties



Rivet Mount TY5 is usable with a wide variety of our cable ties.

Material specifications: See Article-No. on our website.



TY5K1 Rivet Mount

PART DESCRIPTION	Drawing	Width (W)	Length (L)	Length (L2)	Height (H)	Height (H2)	Strap Width max. (G)	Hole Ø (FH)	Panel Thickness	Article-No.
TY5K3-PA66HS-NA		22.0	18.0	14.0	10.0	12.5	9.3	5.9 - 6.4	2.0 - 8.0	152-11309

All dimensions in mm. Subject to technical changes.



Mounting for wiring ducts

TDY Series

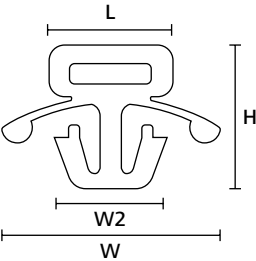
To prevent noise generation, it is a cable fixing accessory used to wire the signal line outside of the duct.

Features and benefits

- Secures direct wiring to the outside of the wiring duct in combination with tie.



Material specifications: See Article-No. on our website.



PART DESCRIPTION	Width (W)	Width (W2)	Length (L)	Height (H)	Wall (WT2)	Strap Thickness max.	Article-No.
TDY1-PA66HS-NA	19.7	10.7	12.0	13.8	2.0	1.8	151-00576

All dimensions in mm. Subject to technical changes.



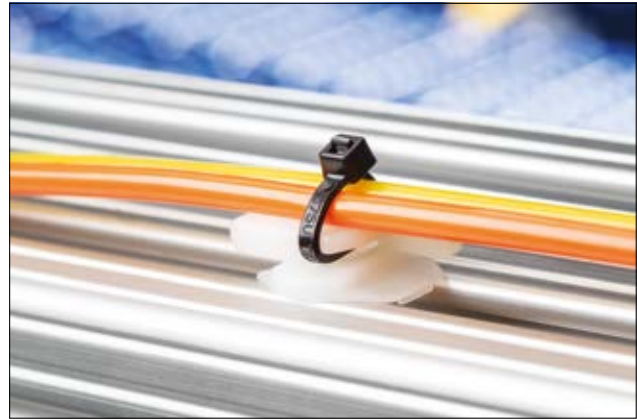
Fixing mount for aluminum frame

AFLM series

Our aluminium frame mounts are specially designed for aluminium construction profiles. Their installation and handling is very simple. At every favoured place on the profile just with a quarter turn the mount is firmly fixed. Also it can be easily loosened and repositioned at any time. The mounts are custom developed for several aluminium construction profiles.

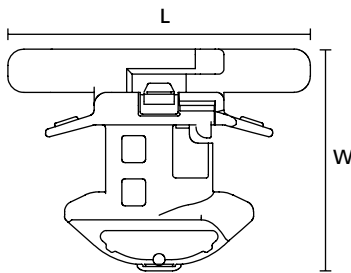
Features and benefits

- AFLM can be easily attached to aluminum frames, which are indispensable for equipment units used at production sites.
- AFLM offers exceptional versatility as it can fit into frames from the major aluminum frame manufacturers.
- Can be attached to an aluminum frame in just one second. Simply rotate to lock in place.



Easy to install, remove and reposition with just a quarter-turn – no tools necessary.

Material specifications: See Article-No. on our website.



PART DESCRIPTION	Width (W)	Length (L)	Height (H)	Pack Cont.	Article-No.
AFLM40-PA66-NA	21.0	28.0	20.5	100 pcs.	151-01066

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Blind plugs

with fir tree for oval holes

Our Plugs were developed especially for the automotive industry. Application in trunks, doors, wheel housing and dash panels. Whenever needed to secure a hole against dirt or dust. Sometimes even used for optical reasons.

Features and benefits

- Easy assembly without the need of a tool
- Disc covers the hole and minimises ingress of dust, dirt and water
- TRIM PLUG 5: with additional retainer to fix panel or cover



Disc surrounding push pin minimizes the ingress of dust, dirt and water.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Pack Cont.	Article-No.
PLUGFTOVALXL-PA66HIRHSUV-BK		6.2 x 12.2 6.5 x 12.5 6.5 x 13.0 7.0 x 12.0	0.6 - 8.0	3000 pcs.	133-02029

All dimensions in mm. Subject to technical changes.



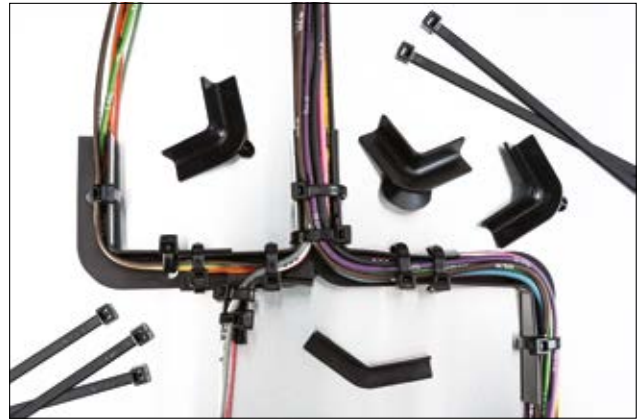
Mini cable channel family

Modular and interchangeable cable routing system

HellermannTyton Mini Channels provide protection and configurable routing in a cost-effective wire management solution. The variety of sizes and configurations enables engineers and installers to create optimum routing scenarios. Mini channels replace engineered channels that are costly to design and develop.

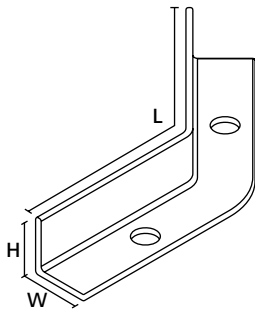
Features and benefits

- Angled channel allows specific guidance around corners or obstructions
- U-Shape channel provides three sides of protection for wire or bundle
- Protects against abrasion and other environmental factors
- Types made from PPT20 material convince with a high operating temperature



Mini channel provides safe routing of wires around corners or obstructions

Material specifications: See Article-No. on our website.



45MINICHNL2

PART DESCRIPTION	Drawing	Hole Ø (FH)	Width (W)	Length (L)	Height (H)	Pack Cont.	Article-No.
45MINICHNL-PPTD20-BK		6.1 - 6.9	10.0	52.0	10.0	4000 pcs.	133-01480
90MINICHNL-PPTD20-BK		-	10.0	38.5	10.0	3500 pcs.	133-01479

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Bundling clips with arrowhead for round holes

Bundling clips with arrowhead for round holes, distance routing

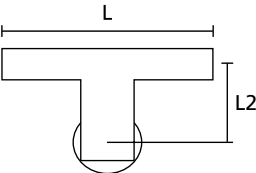
Originally designed for the automotive industry, these clips offer simple and easy methods of securing cables, hoses or pipes. These parts are used in the automotive industry for assembly of cable harnesses.

Features and benefits

- Easy to install without the need for a tool
- Arrowhead simply locks into place
- Disc adjusts tie for pressure from various directions and minimises access of dust and dirt
- Versions for oval holes feature anti-twist protection



StandOff Clips allow cable looms to be routed at a set distance from the punched holes.



Stand Off Clip SOC

More details: Click on article number in table.

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Length (L)	Length (L2)	Pack Cont.	Article-No.
CH20D7-PA66HIRHS-BK		6.4 - 7.0 6.8 (hexagonal)	0.8 - 1.6	50.0	20.0	7000 pcs.	151-00968
STAND OFF CLIP-PA66HIRHS-BK		6.5 - 6.8	0.4 - 1.6	40.0	31.0	500 pcs.	150-45397

All dimensions in mm. Subject to technical changes.



Bundling clips with arrowhead for oval holes

Bundling clips with arrowhead for oval holes

Originally designed for the automotive industry, these clips offer simple and easy methods of securing cables, hoses or pipes. This parts are used in the automotive industry for assembly of cable harnesses.

Features and benefits

- Especially for banding of cables and cable harnesses
- Fastened onto bundling bar with cable ties or adhesive tape
- Various base geometries for wide variety of metal gauges and bore diameters



Bundling clip for oval holes with a stepped foot design for different panel thicknesses.

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Length (L)	Pack Cont.	Article-No.
BCHSFT712-PA66HIRHS-BK		7.0 x 12.0	0.7 - 3.2	40.0	500 pcs.	151-01037

All dimensions in mm. Subject to technical changes.

Bundling clips with arrowhead for oval holes, sealed

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Length (L)	Pack Cont.	Article-No.
BC70SFT712-MD-PA66HIRHS-BK		7.0 x 12.0	0.7 - 1.8	70.0	1000 pcs.	151-01094

All dimensions in mm. Subject to technical changes.

Bundling clips with arrowhead for oval holes, distance routing

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Pack Cont.	Article-No.
SOC20SFT712-S-PA66HIRHS-BK		7.0 x 12.0	2.2 - 3.0	500 pcs.	151-01852

All dimensions in mm. Subject to technical changes.

Bundling clips with arrowhead for oval holes, distance routing, sealed

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Length (L)	Length (L2)	Pack Cont.	Article-No.
CH20D7MD-PA66-BK		7.0	0.80 - 1.60	20.0	-	500 pcs.	151-00969
SOC20SFT712-MD-PA66HIRHS/EPDM-BK		7.0 x 12.0	0.6 - 2.0	50.0	20.0	500 pcs.	151-01255
BCHSFT712-MD-PA66HIRHS-BK		7.0 x 12.0	0.7 - 1.8	42.0	-	500 pcs.	151-01301

All dimensions in mm. Subject to technical changes.



Bundling clips with fir tree

for round holes

Widespread used in cable harness production; a quick and easy means of fixing cables and wires securely in various parts of cars.

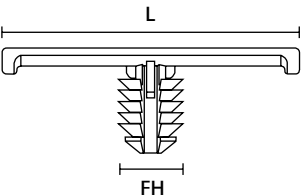
Features and benefits

- Easy to install without the need for a tool
- One fir tree foot part can be used for a variety of panel thicknesses
- Suitable for use within threaded holes
- Holding tabs prevent the tie slipping sideways
- ATS fixing elements can be tied automatically with the ATS3080 tool



Bundling Clips with fir tree for a variety of applications with a wide range of panel thicknesses and drilled holes.

Material specifications: See Article-No. on our website.



TC4FT6LG

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Length (L)	Pack Cont.	Article-No.
TC5FT6S-PA66HIRHS-BK		6.4 - 7.1	0.75 - 1.5	37.0	1000 pcs.	150-95500
TC4FT6LG-PA66HIRHS-BK		6.3 - 7.0	0.6 - 5.1	37.0	10000 pcs.	151-00215
TC4FT6LG-PA66HIRHS-NA		6.3 - 7.0	0.6 - 5.1	37.0	10000 pcs.	151-00467
TC30FT6LG-PA66-BK		6.3 - 7.0	0.7 - 5.1	36.0	1000 pcs.	151-00884
BCFT6XL56-PA66HIRHS-BK		6.3 - 7.0	0.7 - 9.0	56.0	5000 pcs.	151-00662
BCOWFT6M-PA66HIRHS-BK		6.5 - 7.0	0.6 - 3.5	27.3	20000 pcs.	151-02226
TC2FT6LG-PA66HIRHS-BK		6.3 - 7.0	0.6 - 5.1	55.0	14000 pcs.	155-30802

All dimensions in mm. Subject to technical changes.



Bundling clips with fir tree

for oval holes

Originally designed for the automotive industry, these clips offer simple and easy methods of securing cables, hoses or pipes. These parts are used in the automotive industry for assembly of cable harnesses.

Features and benefits

- Especially for banding of cables and cable harnesses
- Fastened onto bundling bar with cable ties or adhesive tape
- Various base geometries for wide variety of metal gauges and bore diameters



Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Length (L)	Pack Cont.	Article-No.
TC50FT62122-PA66-BK		6.2 - 12.2	0.7 - 3	50.0	1000 pcs.	151-00883
TCOP70x120-PA66HIRHS-BK		7.0 x 12.0	0.60 - 6.0	55.0	5000 pcs.	151-00029
WICKELCLIP-VDS-PA66HIRHS-BK		6.3 x 9.0 6.3 x 10.0	0.6 - 2.5	40.0	1000 pcs.	155-16301
BCFTOVAL2-PA66HIRHS-NA		6.2 x 12.2 6.5 x 12.5 6.5 x 13.0 7.0 x 12.0	0.6 - 6.0	38.7	10000 pcs.	151-01240
BCFTOVAL-PA66HIRHS-NA		6.2 x 12.2 6.5 x 12.5 6.5 x 13.0 7.0 x 12.0	0.6 - 6.0	58.0	8000 pcs.	151-01239
TCOP62X122-PA66HIRHS-BK		6.2 x 12.2	0.6 - 6.0	55.0	8000 pcs.	151-01282

All dimensions in mm. Subject to technical changes.

for oval holes, sealed

PART DESCRIPTION	Drawing	Pack Cont.	Article-No.
SOC11FTOVAL1MD-PA66HIRHS/EPDM-BK/NA		3000 pcs.	151-03860

All dimensions in mm. Subject to technical changes.



Bundling clips with fir tree for round holes

for distance routing

Originally designed for the automotive industry, these clips offer simple and easy methods of securing cables, hoses or pipes.

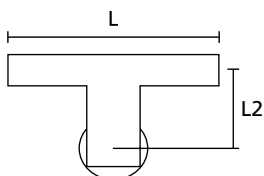
Features and benefits

- Easy to install without the need for a tool
- One fir tree foot part can be used for a variety of panel thicknesses
- Suitable for use within threaded holes
- Disc covers the hole to prevent dirt and dust gaining access
- Bundle runs in a set distance to the hole



COW Clip used as tape-on clip.

Material specifications: See Article-No. on our website.



Stand Off Clip SOC

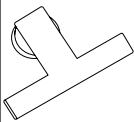
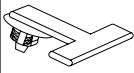
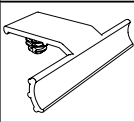
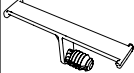
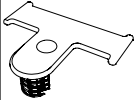
PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Length (L)	Length (L2)	Pack Cont.	Article-No.
COW20DP7-PA66-BN		6.3 - 7.0	0.80 - 4.50	42.0	20.0	500 pcs.	151-01095
COW20DP7-PA66HS-BN		6.3 - 7.0	0.80 - 4.50	42.0	20.0	500 pcs.	151-01097
COW20DP7-PA66HS-BK		6.3 - 7.0	0.80 - 4.50	42.0	20.0	500 pcs.	151-01098
COW30DP7-PA66HS-BK		6.1 - 6.6 (hexagonal) 6.3 - 7.0	0.8 - 4.5	43.2	30.48	500 pcs.	151-00080
COW30DP7-PA66-BK		6.3 - 7.0 6.1 - 6.6 (hexagonal)	0.8 - 4.5	-	-	500 pcs.	151-01398
SOC4MFT6-PA66HIRHS-BK		6.5 - 7.0	0.7 - 5.1	55.0	20.32	500 pcs.	155-30902
SOC5FT6LG-PA66HIRHS-BK		6.1 - 6.6 (hexagonal) 6.5 - 7.0	0.7 - 5.1	55.0	21.0	500 pcs.	151-00074
SOC3FT6LG-PA66HIRHS-BK		6.4 - 7.1	0.75 - 6.0	12.0	30.0	500 pcs.	155-19001
BC13FT6.35-PA66HIRHS-BK		6.35	1.1 - 5.0	40.0	22.0	500 pcs.	151-01335

All dimensions in mm. Subject to technical changes.



Bundling clips with fir tree for round holes

for distance routing

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Length (L)	Length (L2)	Pack Cont.	Article-No.
CH20D7MD-PA66-BK		7.0	0.80 - 1.60	20.0	-	500 pcs.	151-00969
CH20FT6-PA66HIRHS-BK		6.5 - 7.0	0.8 - 2.5	50.0	20.0	1000 pcs.	151-00830
SOC14FT6-PA66HIRHS-NA		6.1 - 6.9	0.6 - 6.0	45.0	-	2000 pcs.	133-01497
SOC10405-PA66HIRHS-BK		6.3 - 6.7	0.7 - 3.5	55.0	20.0	500 pcs.	151-01840
SOC8FT6-PA66HIRHS-NA		6.2 - 6.8	0.7 - 5.75	55.9	42.5	2000 pcs.	151-00650
SOC9FT6XLG-PA66HIRHS-NA		6.1 - 6.9	0.5 - 5.84	35.5	15.75	5000 pcs.	151-01154

All dimensions in mm. Subject to technical changes.



Bundling clips with fir tree for oval holes

for distance routing

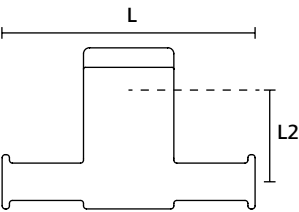
Originally designed for the automotive industry, these clips offer simple and easy methods of securing cables, hoses or pipes.

Features and benefits

- Easy to install without the need for a tool
- One fir tree foot part can be used for a variety of panel thicknesses
- Suitable for use within threaded holes
- Disc covers the hole to prevent dust and dirt gaining access
- Bundle runs in a set distance to the hole



Material specifications: See Article-No. on our website.



PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Length (L)	Length (L2)	Pack Cont.	Article-No.
SOC11FTOVAL-PA66HIRHS-NA		6.2 x 12.2 6.5 x 12.5 6.5 x 13.0 7.0 x 12.0	0.6 - 6.75	50.0	20.0	3000 pcs.	151-00932
SOC11FTOVAL-PA66HIRHS-BK		6.2 x 12.2 6.5 x 12.5 6.5 x 13.0 7.0 x 12.0	0.6 - 6.75	50.0	20.0	3000 pcs.	151-01269
SOC12FTOVAL-PA66HIRHS-NA		6.2 x 12.2 6.5 x 12.5 6.5 x 13.0 7.0 x 12.0	0.6 - 6.75	50.0	32.0	1500 pcs.	151-01238
SOC12FTOVAL-PA66HIRHSUV-BK		6.2 x 12.2 6.5 x 12.5 6.5 x 13.0 7.0 x 12.0	0.6 - 6.75	50.0	32.0	1500 pcs.	151-01117
SOC25FT63x100-PA66HIRHS-BK		6.3 x 10.0	0.6 - 2.5	42.0	18.0	500	133-02635
BC70LFT712-PA66HIRHS-BK		7.0 x 12.0	0.9 - 5.5	81.3	40.0	200 pcs.	151-01217

All dimensions in mm. Subject to technical changes.



Bundling clips for weld studs, lateral adjustment

for distance routing

The BC series is proving very popular in the automotive industry as a means of installing cable sets easily in various areas of the vehicle. Due to the flat and lightweight design they are a solution provider at limited space areas.

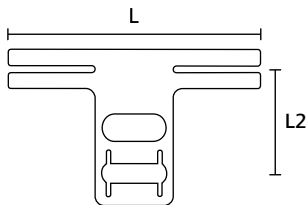
Features and benefits

- Very flat bundling clip for 5.0 mm weld stud
- Horizontal length tolerance compensation
- Suitable for cables of reduced weight and diameter

Material specifications: See Article-No. on our website.



The slim line BC series is particularly compact and flexible.



PART DESCRIPTION	Drawing	Stud Ø	Length (L)	Length (L2)	Pack Cont.	Article-No.
BC2212-PA66HIRHS-BK		5.0	55.0	22.0	1000 pcs.	151-00017

All dimensions in mm. Subject to technical changes.

Bundling clips for round holes with fir tree, lateral adjustment

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Pack Cont.	Article-No.
CHA2-PA66-BK		6.5 - 7.0	0.8 - 2.0	6.0	54.0	500 pcs.	151-02901

All dimensions in mm. Subject to technical changes.



Bundling clips for connectors

for connectors

Originally designed for the automotive industry, these clips offer simple and easy methods of securing cables, hoses or pipes. These parts are used in the automotive industry for assembly of cable harnesses.

Features and benefits

- Bundles are guided above connector plug
- Secure fixing of connector
- Connector easily installed by simply pushing into place
- Connection can be released non-destructive

Material specifications: See Article-No. on our website.



Connector Clips designed for cables and cable sets used in the automotive industry.

PART DESCRIPTION	Drawing	Bundling Bar Length	Pack Cont.	Article-No.
SOC25S09CC11-POM-BK		50.0	5000 pcs.	151-02551

All dimensions in mm. Subject to technical changes.

Bundling clips

with harness clip

Originally designed for the automotive industry, these clips offer simple and easy methods of securing cables, hoses or pipes. These parts are used in the automotive industry for assembly of cable harnesses.

Features and benefits

- Especially for banding of cables and cable harnesses
- Fastened onto bundling bar with cable ties or adhesive tape
- Various base geometries for wide variety of metal gauges and bore diameters
- Suitable for post-installation of bundles
- Interchangeable in case of maintenance

Material specifications: See Article-No. on our website.



Bundling clip OCTC1 with harness clip.

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Length (L)	Pack Cont.	Article-No.
Halter SFT6.5-PA66HIRHS-BK		6.3 - 6.7	0.6 - 1.5	60.0	1000 pcs.	133-00067

All dimensions in mm. Subject to technical changes.



Bundling clips

for edges

EdgeClips are used in the automotive industries and electrical industries and when it is impossible to drill holes or no other fixing points are available.

Features and benefits

- Easy assembly, just shuffle manually
- Designed for edges of 1 - 3 and 1.5 - 4 mm
- Integrated metal clamp holds clip firmly in place
- Clamp consists of double tempered steel spring
- ATS fixing elements can be tied automatically with tools ATS3080, AT2000 or AT2000CPK



Cables and leads can be fastened with a cable tie or adhesive tape to the bars of the mounting element.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Panel Thickness	Width (W)	Length (L)	Height (H)	Pack Cont.	Article-No.
EC14-PA66HIRHS-BK		1.0 - 3.0	10.0	40.0	12.4	500 pcs.	151-03404
EC15-PA66HIRHS-BK		1.0 - 3.0	10.0	40.0	12.5	500 pcs.	151-03401
EC16-PA66HIRHS-BK		1.0 - 3.0	10.0	40.0	13.0	500 pcs.	151-03402
EC17-PA66HIRHS-BK		1.0 - 3.0	10.0	46.5	13.0	500 pcs.	151-03403
ATSBCEC38-PA66HSW-BK		1.5 - 4.0	13.2	39.0	14.2	500 pcs.	102-68385

All dimensions in mm. Subject to technical changes.



2-piece fixing ties for parallel separation

T50RCoupler for max. bundle diameter 2 x 47.0 mm

The fixing ties with coupler is a fastening solution designed to ensure parallel routing of two bundles of tubes, cables, or harnesses. Thanks to its design, each tie can twistable up to 90°, offering great flexibility during installation. The coupler also serves as a spacer: it maintains a space between two harnesses to prevent the risk of friction, especially when cables cross each other. Widely used in the automotive industry, this solution is particularly suitable for securing fluid pipes (fuel, engine cooling...)

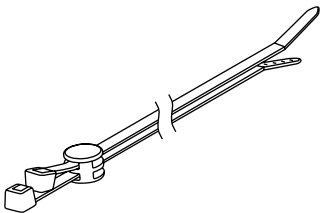
Features and benefits

- Pre-assembled 2-piece fixing tie with coupler
- Cable tie head can be moved after bundling
- Easy addition of cables after assembly
- For parallel routing of bundles that can be twisted 90° even after installation

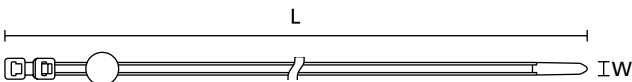


T50RCOUPLER for parallel routing.

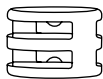
Material specifications: See Article-No. on our website.



Two Cable Ties with Coupler



Cable Ties with Coupler



Coupler

PART DESCRIPTION	Width (W)	Length (L)	Bundle Ø max.		Tools	Article-No.
T50RCOUPLER-PA46-GY	4.6	202.0	47.0	225	1-2;4-7;25	156-00382

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.
All dimensions in mm. Subject to technical changes.



Cable tie mount for parallel routing, twistable 360°

DSWS-Series

These fixing element for parallel routing can be used where bundles need separation from each other combined with the necessary functionality to support moving harnesses.

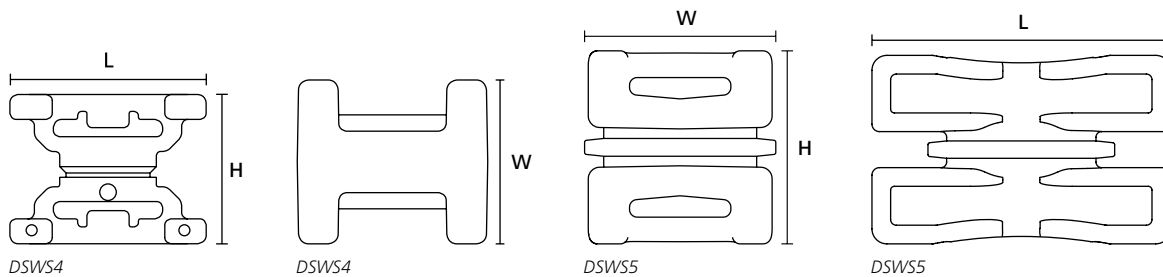
Features and benefits

- For parallel routing of bundles that can be twisted 360° even after setting
- Secure alignment to the bundle due to H-design
- Cable tie head can be moved after bundling
- For cable ties up to 12.7 mm wide
- For post-installation of bundles



The spacers can be easily rotated by hand, allowing the bundles to be crossed and rotated at any angle.

Material specifications: See Article-No. on our website.



PART DESCRIPTION	Drawing	Bundle Ø min.	Bundle Ø max.	Strap Width max. (G)	Width (W)	Length (L)	Height (H)	Pack Cont.	Article-No.
DSWS4-PA66HS/POM-BK		6.0	76.0	12.7	20.3	23.6	18.0	2200 pcs.	151-06500
DSWS5-PA66HS/PA46-BK		16.0	152.0	12.7	25.4	40.6	23.6	50 pcs.	151-06502

All dimensions in mm. Subject to technical changes.



Fixing base

LOK04

The LOK04 spacer is ideal whenever two or more cables are routed in parallel.

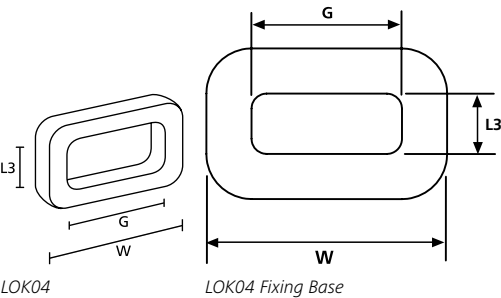
Features and benefits

- For routing bundles over a distance in parallel
- Can be used with cable ties up to 9 mm cable tie width



LOK04 ring for parallel routing.

Material specifications: See Article-No. on our website.



PART DESCRIPTION	Width (W)	Length (L3)	Strap Width max. (G)	Pack Cont.	Article-No.
LOK04-PA66-NA	16.0	4.0	9.0	100 pcs.	151-00678

All dimensions in mm. Subject to technical changes.



Spacer Shim

CE Series

The Spacer Shim is used to distance and secure cables, tubes, hoses and other products that require this purpose. It was specially developed to be used together with T120 and T250 series cable ties. With manual assembly, it does not require any type of special tool for its application.

Features and benefits

- Used to distance and secure wires, cables, tubes, hoses
- Used together with T120 and T250 series cable ties
- Easy to install
- No tool is needed



Material specifications: See Article-No. on our website.

PART DESCRIPTION	Width (W)	Length (L)	Height (H)	Bundle Ø max.	Strap Width max. (G)	Pack Cont.	Article-No.
CE30-PA46-WH	18.0	18.0	30.0	27.0	12.5	0.05 ml	151-01068

All dimensions in mm. Subject to technical changes.

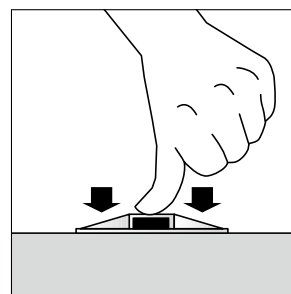
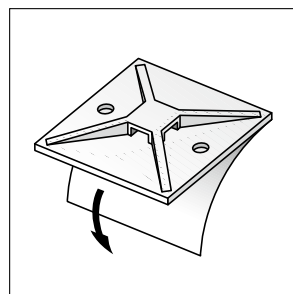
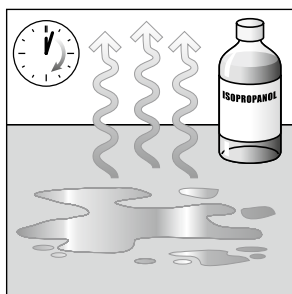


Information and installation instructions for self-adhesive mounting bases

HellermannTyton uses different types of adhesives for self-adhesive bases: acrylate and synthetic rubber. These differ in the operating temperature range and the 'pull off' force of the adhesive. Synthetic rubber has an excellent initial grip, allowing for almost immediate use.

Acrylate adhesive has less initial grip, so there might be a need to wait for a few hours before use (depending on the surface), but has a higher, "pull off" force than synthetic rubber. This enables a permanent fixing lasting months or even years.

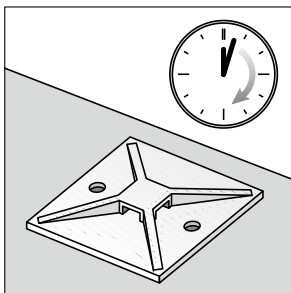
Instructions for use



1. The surface must be dry, free from dust, oil, oxides, parting agents and other impurities. The surface to be glued should be cleaned using a clean cloth and isopropanol/water (50/50). When using other appropriate cleaning agents, ensure that they do not attack the surface nor leave any residues. After cleaning allow the surface to air-dry completely.

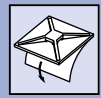
2. Peel off protective backing and ensure the adhesive area is not touched.

3. Press down firmly on the base with the thumbs for several seconds.



4. Depending on the type of adhesive, wait for several minutes (synthetic rubber) or hours (acrylate) so that the adhesive can bond completely with the surface.

We will be happy to send you on request an up-to-date technical datasheet for whichever adhesive you are using.



Cable tie mounts with high performance adhesive

FlexTack-Series FMB for round and angled surfaces

FlexTack cable tie mounts can be successfully applied to a variety of high- and low-energy surfaces such as glass, metals (including painted, varnished or powder-coated surfaces) as well as plastics. FlexTack provides a reliable fixing solution where it is impractical to use screws or bolts. The unique design in combination with the special acrylate adhesive makes professional cable management easy.

Features and benefits

- Flexible mount for round and angled surfaces
- FMB mounts with homogeneous system of acrylic adhesive
- Allows greater design freedom and offers uniform stress distribution along with weight reduction
- Innovative fixing solution for high and low energy surfaces
- Protection foil with finger lift for easy peel off
- FlexTack cable tie mounts are also suitable for high energy surfaces like metal or glass.

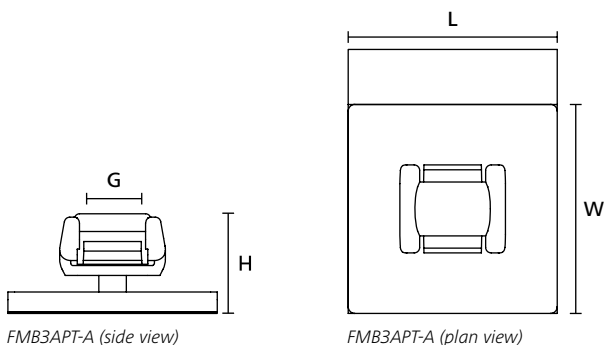


Flexible cable tie mount, FlexTack in use on a concave surface.

MATERIAL	Polyamide 6.6, heat stabilised (PA66HS)
Adhesive	Acrylate with base of acrylic foam
Operating Temperature	-40 °C to +90 °C
Flammability	UL 94 V2 (excluding adhesive)

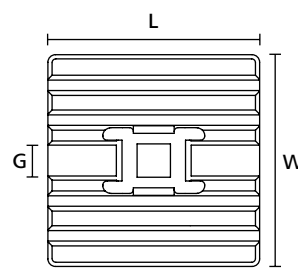


For more information on the types of adhesive please see page 108.



FMB3APT-A (side view)

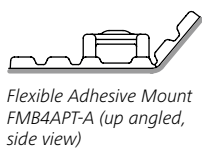
FMB3APT-A (plan view)



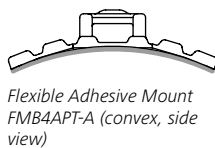
Flexible Adhesive Mount FMB4APT-A (plan view)



Flexible Adhesive Mount FMB4APT-A (side view)



Flexible Adhesive Mount FMB4APT-A (up angled, side view)



Flexible Adhesive Mount FMB4APT-A (convex, side view)

PART DESCRIPTION	Width (W)	Length (L)	Height (H)	Strap Width max. (G)	Pack Cont.	Article-No.
FMB4APT-A-PA66HS-BK	28.0	28.0	6.3	5.4	100 pcs.	151-02219

All dimensions in mm. Subject to technical changes.



Cable tie mounts with high performance adhesive

SolidTack-Series MB

SolidTack MB Series mounts have a square design and are fairly common in areas like electrical cabinet, railway, aerospace, automotive and agriculture machinery. The premium self-adhesive bonds well on high and low-energy surfaces like plastics, metal, varnish or paint and is suitable for a wide range of applications.

Features and benefits

- MB mounts with homogeneous system of acrylic adhesive
- Very good initial adhesion, increases with time
- Innovative fixing solution for high and low energy surfaces
- Protection foil with finger lift for easy peel off

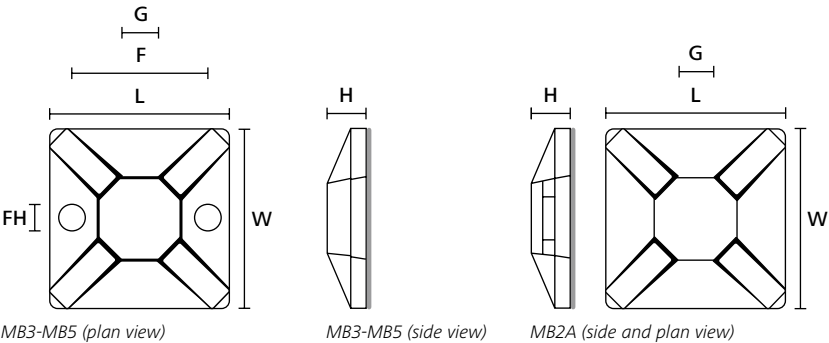
For more information on the types of adhesive please see page 108.



SolidTack MB Series mounts with square design - screwable, self-adhesive - suitable for a wide range of applications like fastening of cables in the automotive machinery.

MATERIAL	Polyamide 6.6 (PA66)
Adhesive	Acrylate with base of acrylic foam
Operating Temperature	-40 °C to +85 °C
Flammability	UL 94 V2 (excluding adhesive)

HF✓ RoHS✓



PART DESCRIPTION	Width (W)	Length (L)	Height (H)	Strap Width max. (G)	Pack Cont.	Article-No.
MB2APT-A-PA66-BK	13.0	13.0	4.1	2.7	100 pcs.	151-02243
MB3APT-A-PA66-BK	19.0	19.0	3.8	4.4	100 pcs.	151-02244
MB4APT-A-PA66-BK	28.0	28.0	4.7	5.6	100 pcs.	151-02245

All dimensions in mm. Subject to technical changes.



Cable tie mounts

MB-Series square design, self-adhesive

Where speed, simplicity and a firm fixing base are required these self adhesive clips are ideal. Particularly suitable for use in control cabinets, telecoms equipment or domestic appliances where the use of holes, screws, or nuts and bolts is impractical or undesirable.

Features and benefits

- Simple to instal
- 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



MB-Series Mounts with square design.

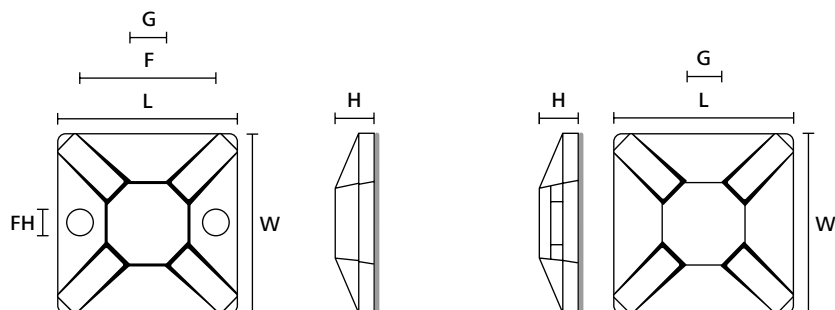
For more information on the types of adhesive please see page 108.

MATERIAL	Polyamide 6.6 (PA66)	
Adhesive	Synthetic rubber	Synthetic rubber with base of polyethylene foam
Flammability	UL 94 V2	UL 94 V2 (excluding adhesive)

RoHS ✓

HF ✓

RoHS ✓



MB3-MB5 (plan view)

MB3-MB5 (side view)

MB2A (side and plan view)

PART DESCRIPTION	Width (W)	Length (L)	Height (H)	Fixing Hole Centres (F)	Strap Width max. (G)	Pack Cont.	Operating Temperature	Article-No.
MB2A-PA66-WH	13.0	13.0	4.1	-	2.7	100 pcs.	-40 °C to +60 °C	151-01802
MB3A-PA66-BK	19.0	19.0	3.8	13.2	4.1	100 pcs.	-40 °C to +60 °C	151-28320
MB3A-PA66-WH	19.0	19.0	3.8	13.2	4.1	100 pcs.	-40 °C to +60 °C	151-28349
MB4A-PA66-BK	28.0	28.0	4.7	20.2	5.4	100 pcs.	-40 °C to +60 °C	151-28412
MB4A-PA66-WH	28.0	28.0	4.7	20.2	5.4	100 pcs.	-40 °C to +60 °C	151-28469
MB5A-PA66-NA	38.0	38.0	8.0	27.5	10.0	100 pcs.	-	151-00537

All dimensions in mm. Subject to technical changes.



Cable tie mounts

TY-Series rectangle design, self-adhesive

Where speed, simplicity, and a firm fixing base are required these self adhesive clips are ideal. Particularly suitable for use in control cabinets, telecoms equipment or domestic appliances where the use of holes, screws, or nuts and bolts is impractical or undesirable.

Features and benefits

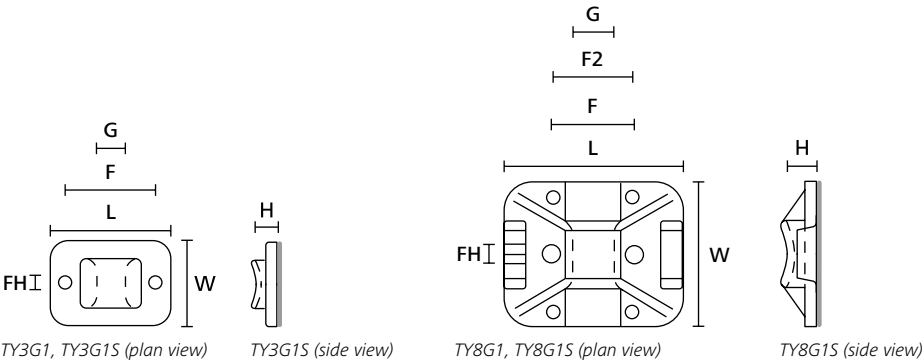
- 2-way mounting base for safe guiding of cables and conduits
- Suitable for applications with minimal space
- Mounted before cable installation



TY-Series selfadhesive mounts with rectangle design.

For more information on the types of adhesive please see page 108.

MATERIAL	Polyamide 6.6 (PA66)
Adhesive	Acrylate with base of polyurethane foam
Operating Temperature	-40 °C to +85 °C
Flammability	UL 94 V2 (excluding adhesive)



PART DESCRIPTION	Drawing	Width (W)	Length (L)	Height (H)	Fixing Hole Centres (F)	Strap Width max. (G)	Pack Cont.	Article-No.
TY3G1S-PA66-NA		14.0	20.0	3.7	15.0	4.0	100 pcs.	151-11319

All dimensions in mm. Subject to technical changes.



Mounts with cable clip, self-adhesive

RA-Series

These mounts are ideal for use in applications which are difficult to access or for areas where self adhesive is the only possible fixing method and fixing holes would be unacceptable. The self adhesive mounts can be used without cable ties. Offering process optimization in industries like automotive, bus and truck, construction vehicles or industrial building.

Features and benefits

- One-piece self adhesive mount for quick and easy installation
- Can be used without cable ties offering process optimization
- Designed to hold wires, cables or hoses
- Different sizes for various bundle diameters available
- Two types of adhesive can be offered

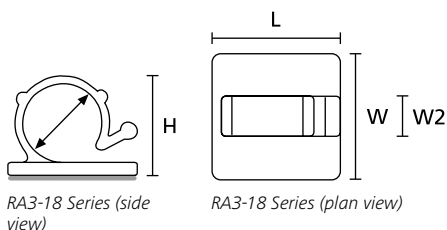
For more information on the types of adhesive please see page 108.



Self adhesive one piece fixing mounts RA6 (l) and RB5 (r).

MATERIAL	Polyamide 6.6 (PA66)	
Adhesive	Synthetic rubber with base of polyethylene foam	
Operating Temperature	-40 °C to +60 °C	-40 °C to +85 °C
Flammability	UL 94 V2 (excluding adhesive)	

RoHS ✓



PART DESCRIPTION	Width (W2)	Bundle Ø max.	Width (W)	Length (L)	Height (H)	Operating Temperature	Pack Cont.	Article-No.
RA6-PA66-NA	5.0	6.0	19.0	19.0	9.0	-40 °C to +60 °C	100 pcs.	151-13019
	5.0	6.0	19.0	19.0	9.0	-40 °C to +85 °C	50 pcs.	151-13401
RA9-PA66-NA	7.5	9.0	19.0	19.0	12.5	-40 °C to +60 °C	100 pcs.	151-13020

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Mounts with cable clip, self-adhesive

RB-Series

RB-Series self adhesive mounts offer greater routing freedom and also reduce the risk of corrosion compared to screw fixing mounts. They are ideally suited for tool-free installation and can be re-opened and reused easily when cables need to be replaced. These mounts can be used without the need for additional cable ties. Offering process optimization in a variety of applications.

Features and benefits

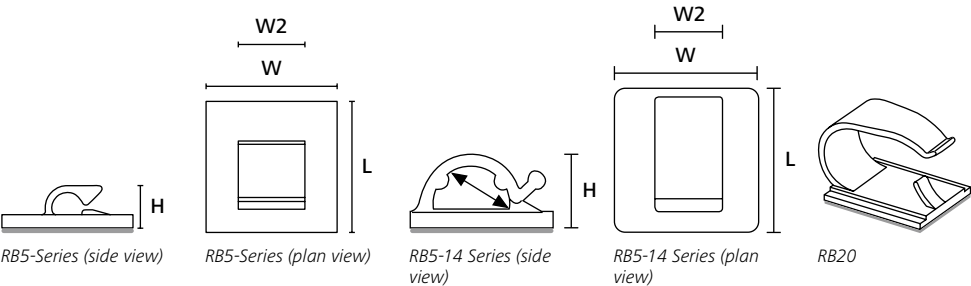
- Flat design to use in applications with limited space
- One-piece self adhesive mount for quick and easy installation
- Can be used without cable ties offering process optimization
- Different sizes for various bundle diameters available
- Cost effective with easy application on smooth, clean surfaces

For more information on the types of adhesive please see page 108.



Self adhesive one piece fixing mounts RB20 (l) and RB14 (r).

MATERIAL	Polyamide 6.6 (PA66)
Adhesive	Synthetic rubber with base of polyethylene foam
Flammability	UL 94 V2 (excluding adhesive)



PART DESCRIPTION	Width (W2)	Bundle Ø max.	Width (W)	Length (L)	Height (H)	Operating Temperature	Pack Cont.	Article-No.
RB5-PA66-BK	9.7	5.0	19.0	19.0	6.0	-40 °C to +60 °C	50 pcs.	151-14000
RB8-PA66-NA	12.7	8.0	25.0	25.0	11.5	-40 °C to +85 °C	200 pcs.	151-13608

All dimensions in mm. Subject to technical changes.



Connector clips for oval holes

with arrowhead

The connector clip used here have been designed in the automotive industry

Features and benefits

- Connector easily installed by simply pushing into place
- Connection can be released non-destructive
- Easy assembly, just shuffle manually
- Oval connectors offer twist protection



Connector clip CCIISFT6 with arrowhead fixing for oval holes.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Pack Cont.	Article-No.
CCSFT7x12-PA66HIRHS-BK		7.0 x 12.0	0.8 - 2.0	17.5	17.5	500 pcs.	151-00194
CCAMPSFT7.0x12.0-PA66HIRHS-BK		7.0 x 12.0	1.0 - 2.0	16.0	16.0	1000 pcs.	155-43802
CCIVSFT6.5x130-PA66HIRHSUV-BK		6.5 x 13.0	0.7 - 3.0	19.6	23.0	10000 pcs.	151-02076
STECKERHALTER-OVALFUSS-PA66HIRHS-BK		6.2 - 12.2	0.5 - 3.0	22.0	29.5	1000 pcs.	133-00004
CCAH7X12PT0.5-3.0-PP-BK		7.0 - 12.0	0.5 - 3.0	13.2	38.3	2400 Bag	133-03060

All dimensions in mm. Subject to technical changes.



Connector clips for oval holes

with arrowhead, sealed

HellermannTyton sealed clips and ties are constructed of engineered nylon with a dual TPE (thermo plastic elastomer) seal. The combination of dual seal and engineered arrowhead provide superior sealing performance for applications where protection from moisture and debris is essential.

Features and benefits

- Once installed, perpendicular arrowhead arms reduce movement and will not collapse when exposed to water or load.
- Integrated dual seal meets IP65 for protection against water, dust, chemicals, air and sound.
- Superior design and high-spec materials maintain routing position to deliver consistent performance in the most rugged applications.
- Low-profile design saves 5 mm of height when installed.
- Sealed arrowhead meets USCAR44 push in, pull off and sealing standards.



Once installed, perpendicular arrowhead arms reduce movement and will not collapse when exposed to water or load.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Height (H)	Pack Cont.	Type of connection	EWCAP standard	Article-No.
SAHOVAL1.4TCC7-PA66HIRHS/TPE-BK/GY		6.2 x 12.2 6.5 x 12.5 6.5 x 13.0	1.2 - 1.8	22.8	27.3	17.6	4000 Carton	USCAR7	EWCAP-005-7	151-02996

All dimensions in mm. Subject to technical changes.



Connector clips for round holes

with fir tree

The connector clips used here have been designed for electronic cables and cable sets used in the automotive industry. These parts are related to a connector and then secured to a surface depending on the requirement.

Features and benefits

- Connector easily installed by simply pushing into place
- Connection can be released non-destructive
- One fir tree foot part can be used for a variety of panel thicknesses
- Disc covers the hole to prevent dust and dirt gaining access
- For twist protection: Variants with additional stick



Connector Clips are available for many different connector types and fixing varieties.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Height (H)	Pack Cont.	Type of connection	Article-No.
FT6LG-AMP-PA66HIRHS-BK		6.5 - 7.0	0.7 - 6.0	16.0	16.0	20.5	500 pcs.	AMP	155-03800
		6.5 - 7.0	0.7 - 6.0	-	-	-	1000 pcs.	-	151-01278
FT6LG.M.St.Aufn.II-PA66HIRHS-BK		6.5 - 7.0	0.75 - 5.0	16.0	27.0	17.3	500 pcs.	-	155-32602
FT6LG.YAZ.CONNECT-TS-PA66HIRHS-BK		6.4 - 7.1	0.7 - 5.1	16.0	27.0	15.3	500 pcs.	-	155-30702
CCFT6LG-PA66HIRHS-BK		6.0 - 6.7	0.70 - 4.00	-	-	17.0	-	-	151-03698
YCCFT6LGTS2-PA66HIRHS-BK		6.1 - 6.9	0.7 - 5.0	16.0	31.3	16.8	15000 pcs.	-	151-00965
CC11FTM6-PA46-BN		M6	1.3 - 4.5	15.8	24.9	20.7	5000	-	151-02458

All dimensions in mm. Subject to technical changes.



Connector clips, oval holes

with fir tree

The connector clips used here have been designed for electronic cables and cable sets used in the automotive industry. These parts are related to a connector and then secured to a surface depending on the requirement.

Features and benefits

- Connector easily installed by simply pushing into place
- Connection can be released non-destructive
- Easy assembly, just shuffle manually
- Oval connectors offer twist protection
- Available for a wide variety of panel thicknesses



For a secure fixation simply push the connector by hand on our Connector Clip YCCFT62x122.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Pack Cont.	Article-No.
JCCSFT6.5x13-PA66HIRHS-BK		6.5 x 13.0	0.7 - 3.0	-	-	500 pcs.	151-01248
YCCFT62x122-PA66HIRHS-BK		6.2 x 12.2	0.6 - 6.0	16.0	21.1	1000 pcs.	151-00180
CC12-PA66HIRHSUV-BK		8.0 x 15.0	0.6 - 6.5	18.3	25.5	4000 pcs.	151-01136
CCLOP62X122-PA66HIRHS-BK		6.2 x 12.2	15.0	19.7	31.2	5000 pcs.	151-00855
CCOVAL2-PA66HIRHSUV-BK		6.2 x 12.2 6.5 x 12.5 6.5 x 13.0 7.0 x 12.0	0.6 - 6.0	17.6	29.0	5000 pcs.	151-03492
CCOVAL-PA66HIRHS-BK		6.2 - 12.2 6.5 x 12.5 6.5 x 13.0 7.0 x 12.0	0.6 - 6.0	17.6	24.9	1000 pcs.	151-02533
CCOVAL23OS10-PA66HIRHSUV-BK		6.2 x 12.2 6.5 x 12.5 6.5 x 13.0 7.0 x 12.0	0.6 - 6.75	19.7	35.2	1500 pcs.	133-04724

All dimensions in mm. Subject to technical changes.

Connector Clips, oval hole, fir tree with seal

PART DESCRIPTION	Article-No.
CCOVAL2-E-MD-PA66-BK	151-03455

All dimensions in mm. Subject to technical changes.



Connector clips for edges

1 - 3 mm, 1.5 - 4 mm and 3 - 6 mm

EdgeClips are used in the automotive industries and electrical industries and when it is impossible to drill holes or no other fixing points are available.

Features and benefits

- Connectors are mounted simply by pushing them into retainer
- Connector can be removed without damage
- Fastened to an edge, the EdgeClip ensures snug fit almost all types of connector

Material specifications: See Article-No. on our website.



EdgeClip EC6mod.

PART DESCRIPTION	Drawing	Panel Thickness	Pack Cont.	Type of connection	Article-No.
EC33-PA66HIRHS-BK		1.0 - 3.0	500 pcs.	AMP	151-00192
EC6mod-PA66HIRHS-BK		1.0 - 3.0	1000 pcs.	-	151-00464
CCEC6-PA66HIRHS-BK		1.0 - 3.0	1000 pcs.	-	150-92600
CCEC3.0SV-PA66HIRHS-BK		1.0 - 3.0	500 pcs.	-	151-01058
CCEC3TR-PA66HIRHS-BK		1.0 - 3.0	7000 pcs.	-	151-01142
EC8-PA66HIRHS-BK		1.0 - 3.0	500 pcs.	-	133-03177

All dimensions in mm. Subject to technical changes.



Connector accessory

Fixing slider for 3.0 mm panel thickness

Fixing slider A, 3.0 mm

The slider is used to keep the plugs firmly and vibration-proof in place, even when movement acts on it.

Features and benefits

- Color coding for panel thickness: red (2.5 mm), yellow (3.0 mm), grey (1.5 mm and 3.5mm), natural (1.0 mm and 1.5 mm)
- Panel thickness is marked on the slider
- Permanent fixation of the connectors in the mounting hole by using the slider
- These parts are also available in V0 material (flame retardant) e.g. for public transport
- Fixing slider fit for the Aptiv connector XS and SP series



Fixing Slider "Group A" for 3.0 mm panel thickness.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Width (W)	Length (L)	Height (H)	Panel Thickness	Pack Cont.	Article-No.
FSE3.0-PBTGF30FR-YE	36.2	56.5	12.7	3.0	1200 pcs.	151-02413

All dimensions in mm. Subject to technical changes.

Connector accessory

Backshells, straight

Backshell A, straight, NW 8.5

The backshells or covers protecting the individual cables and wires from splashing water and dirt.

Features and benefits

- Strain relief for corrugated tubes
- Four shrouded locks
- Strapping points fully integrated with cover for maximum retention of harness
- Nominal diameter printed in backshell
- Insertion support and pre-catch function audible by clicking simplify the closing, laying of the cables and saves time
- Corrugated tube is completely enclosed by backshell, so that tube is not bruised in case of using an additional cable tie and cannot slip out of place especially during movement and vibration
- Available in V0-material (flame retardant) especially for vehicles used for transportation of passengers



Backshell "Group A" NW8.5 180°.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Nominal Ø	Width (W)	Length (L)	Height (H)	Pack Cont.	Article-No.
BSE180NW17-PA66HS-BK	17.0	53.3	39.1	27.2	900 pcs.	151-02398

All dimensions in mm. Subject to technical changes.



1-piece fixing ties for weld studs

For cable routing above the stud

Primarily designed for use in the automotive industry, these parts can be used in a wide variety of applications where weld studs or ISO bolts are used and cables need to be bundled and secured.

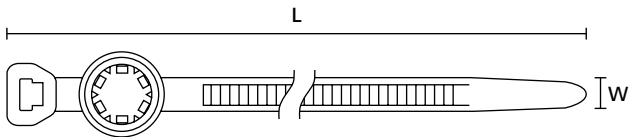
Features and benefits

- Cable tie head always situated in defined position
- Easy to assemble without the need for a tool
- Bundle runs directly above weld stud with defined stand-off from the panel



The T50SSBS50T-E / T50SSBS60T-E allows very precise routing of cable bundles.

Material specifications: See Article-No. on our website.



T50SSBS60T-E

PART DESCRIPTION	Drawing	Stud Ø	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T50SSBS50T-E-PA66HS-BK		5.0	4.6	160.0	35.0	200	1-2;4-7;25	157-00207
T50SSBS60T-E-PA66HS-BK		6.0	4.6	160.0	35.0	200	1-2;4-7;25	157-00083

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



1-piece fixing ties for weld studs

For cable routing alongside the stud

Primarily designed for use in the automotive industry, these parts can be used in a wide variety of applications where weld studs or ISO bolts are used and cables need to be bundled and secured.

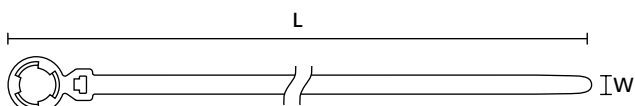
Features and benefits

- Cable tie head always situated in defined position
- Easy to install without the need for a tool
- Bundles are routed very close to stud



T50SOSSBD-M8/10.

Material specifications: See Article-No. on our website.



T50SOSSBD-M8/M10

PART DESCRIPTION	Drawing	Stud Ø	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T50SOSSBU-M6-PA66HSUV-GY		M6	5.7	175.0	30.0	150	1;3;6-7;9-10;25	157-00065
T50SOSSBD-M6-PA66HSUV-BK		M6	5.7	175.0	30.0	150	1;3;6-7;9-10;25	157-00038
T50SOSSBD-M8-PA66HSW-BK		M8	5.7	175.0	30.0	150	1;3;6-7;9-10;25	157-00039
T50SOSSBD-M10-PA66HSW-BK		M10	5.7	175.0	30.0	150	1;3;6-7;9-10;25	157-00040
T50SOSSBS5E-PA66HS-BK		5.0	4.7	160.0	35.0	225	1-2;4-7;25	157-00210
T50SOSSBS5E-2-PA66HS-BK		5.0	4.7	161.0	35.0	225	1-2;4-5;25	157-00252
T50SOSSBS6E-2-PA66HS-BK		M6	4.7	161.0	35.0	225	1-2;4-5;25	157-00530
SBT120-M6-PA66HSUV-BK		M6	13.0	300.0	60.0	533	6-7;9-10	157-00022
SBT120-M8-PA66HSUV-BK		M8	13.0	300.0	60.0	533	6-7;9-10	157-00023
SBT50-M8-PA66HSUV-BK		M8	6.0	180.0	35.0	222	1;3;6-7;9-10;25	157-00027
T50ROSLPM6MSO25-PA66HIRHSUV-BK		5.0, 6.0	14.2	223.5	50.0	225	1-2;4-5;25	157-00335
T50ROSM6MSO25-PA66HIRHSUV-BK		M5, T5, M6, T6	4.7	224.0	50.0	222	-	157-00325
T50ROSSB5-6U-PA66HIRHSUV-BK		5.0, 6.0	5.1	218.4	50.0	225	1;3;6-7;9-10;25	157-00233

Recommended Tools: 1=MK10-SB, 2=MK20, 3=MK21, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 9=EVO9iHT, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



1-piece fixing ties for weld studs, lateral adjustment

T50SOSWSP5E-2 for 5 mm studs, retainer height 3.5 mm

Primarily designed for use in the automotive industry, these parts can be used in a wide variety of applications where weld studs or ISO bolts are used and cables need to be bundled and secured.

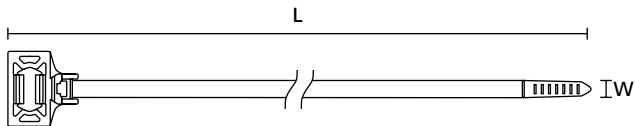
Features and benefits

- Cable tie head always situated in defined position
- Easy to install without the need for a tool
- Provides 5 – 6 mm lateral adjustment
- Very low profile, stackable design
- For parallel routing of several bundles



T50SOSWSP5E-2, parallel installation using two fixing ties.

Material specifications: See Article-No. on our website.



T50SOSWSP5E-2

PART DESCRIPTION	Drawing	Stud Ø	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T50SOSWSP5E-2-PA66HS-BK		5.0, 6.0	4.6	162.6	35.0	225	1-2;4-5;25	133-01553

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



1-piece fixing ties for weld studs

for lateral adjustment

Primarily designed for use in the automotive industry, these parts can be used in a wide variety of applications where weld studs or ISO bolts are used and cables need to be bundled and secured.

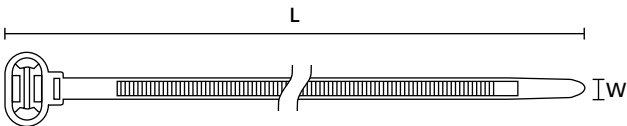
Features and benefits

- Cable tie head always situated in defined position
- Easy to install without the need for a tool
- Provides a 5 – 6 mm lateral adjustment, also subsequently possible



The fixing tie T50SOSSB5-High-E-C-CC for fixation on weld or ISO bolts.

Material specifications: See Article-No. on our website.



T50SOSSB5-High-E-C-CC

PART DESCRIPTION	Drawing	Stud Ø	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T50SOSSB6HE-PA66HS-BK		6.0	4.7	160.0	35.0	170	1-2;4-7;25	155-46302
T50SOSSB5-High-E-C-CC-PA66HS-BK		5.0, M6	5.0	167.0	35.0	225	1;3;6-7;9-10;25	157-00037
HT160SB5HE-PA66HS-BK		M5	5.0	167.0	35.0	200	1;3;6-7;9-10;25	157-00089
T60ROSSB6HEC-PA66HS-BK		6.0	5.5	227.4	55.0	300	1;3;6-7;9-10;25	157-00101

Recommended Tools: 1=MK10-SB, 2=MK20, 3=MK21, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 9=EVO9iHT, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.
All dimensions in mm. Subject to technical changes.



1-piece fixing ties for weld studs

LFC-Series for routing close to the stud

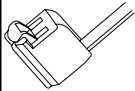
Features and benefits

- 1-piece fixing tie for 5 mm studs
- Cable tie head always situated in defined position
- Easy to install without the need for a tool
- Bundle runs very close next to stud
- Closed stud retainer protects the bundle against damage
- Contact surface allows secure bundling with tensioning tool



LFC165-2 for bundle diameters up to 35.0 mm.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Stud Ø	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
LFC165-2-PA66HS-BK		5.0	4.7	165.0	35.0	150	2;4-5;25	157-00047

Recommended Tools: 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



1-piece fixing ties for weld studs, for heavy duty applications

for parallel routing

Primarily designed for use in the automotive industry, these parts can be used in a wide variety of applications where weld studs or ISO bolts are used and cables need to be bundled and secured.

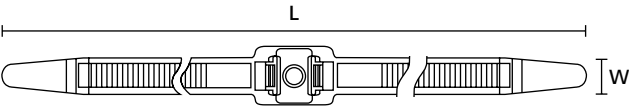
Features and benefits

- Parallel separation between hoses, wires, cables and tubing
- Abrasion protection
- Optional mounting hole for securing bundles along the Chassis of trucks, trailers and heavy duty equipment



DCT products are made for parallel routing of harnesses with stud fixing.

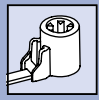
Material specifications: See Article-No. on our website.



Dual Clamp Ties (DCT)

PART DESCRIPTION	Stud Ø	Width (W)	Length (L)	Bundle Ø max.		Tools	Article-No.
DCT11-PA66HIRHSUV-BK	M6	12.7	487.7	58.0	667	6-7;9-10	115-31100
DCT9-PA66HIRHSUV-BK	M6	12.8	331.0	33.0	667	6-7;9-10	115-00034

Recommended Tools: 7=EVO9i, 9=EVO9iHT, 10=MK9P. For more information on toolings please refer to the Application Tooling chapter on page 308.
All dimensions in mm. Subject to technical changes.



1-piece fixing ties for weld studs

T120RSM

Primarily designed for use in the automotive industry, these parts can be used in a wide variety of applications where weld studs or ISO bolts are used and cables need to be bundled and secured (T120RSM is for 1/4" bolts).

Features and benefits

- One-piece fixing ties
- High specification materials
- Superior design
- Suitable for complex applications



Heavy duty T-Series cable ties feature inside serrations to provide a positive hold on wire and cable bundles.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Stud Ø	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T120RSM-PA66HIRHSUV-BK		6.3	7.6	405.0	101.0	535	1;3;6-7;9-10;25	157-01300

Recommended Tools: 1=MK10-SB, 3=MK21, 7=EVO9i, 9=EVO9iHT, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



2-piece fixing ties for weld studs

for parallel routing

Widely used for securing cables pipes and hoses in the automotive and truck building industries, the mounting base is simply pushed onto a 5 mm diameter stud or bolt.

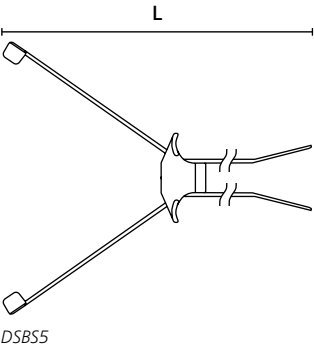
Features and benefits

- Pre-assembled 2-piece fixing tie with stud retainer
- For parallel routing of cables, hoses or harnesses
- Cable tie head can be moved after bundling
- Easy to install without the need for a tool
- For 5 mm studs or 5 mm ISO threaded studs
- Made from PP/PA66HIRHS: combines sustainability benefits of PP (lightweight, chemically resistant) with the robustness and heat stability of PA66HIRHS – perfect for demanding automotive environments



Parallel fixation of two cables and keeps the bundles close to the cables.

Material specifications: See Article-No. on our website.



PART DESCRIPTION	Drawing	Stud Ø	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T50RDSBS5-6-PA66HS/PA66HIRHS-BK		M5, M6	4.6	200.0	45.0	225	1-2;4-5;25	156-01650
T50RODSBS5-PA66HS/PA66HIRHS-BK		5.0	4.6	200.0	45.0	222	1-2;4-5;25	150-56199
T50SDSBS5-PA66HS/PA66HIRHS-BK		5.0	4.6	150.0	35.0	225	1-2;4-5;25	150-56193

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.
All dimensions in mm. Subject to technical changes.



2-piece fixing ties for weld studs

for parallel routing

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.

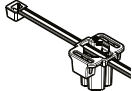
Features and benefits

- 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.



Versatile two-piece design allows cable routing above, perpendicular or parallel to stud.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Hole Ø (FH)	Width (W)	Length (L)	Bundle Ø max.	N	Article-No.
T50R05BS5-6U-SET-PA66HS/PA66HIRHSUV-BK		M5 x 0.8 M6 x 1 T5	4.6	202.0	50.0	222	156-01547

All dimensions in mm. Subject to technical changes.



2-piece fixing ties

for weld studs

Primarily designed for use in the automotive industry, these parts can be used in a wide variety of applications where 5mm weld studs or 5mm ISO bolts are used and cables need to be bundled and secured

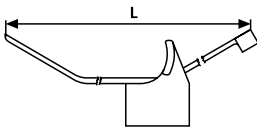
Features and benefits

- Pre-assembled 2-piece fixing tie with stud retainer
- Cable tie head can be moved after bundling
- Easy to install without the need for a tool
- SB5-types for 5mm studs or 5mm ISO threaded studs
- Types with discs can retain insulation materials while fixing a cable bundle
- GB58C for 8 mm retainer enables parallel routing



2-piece fixing tie T50ROSKL

Material specifications: See Article-No. on our website.

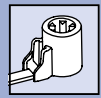


T50RSBS5

PART DESCRIPTION	Drawing	Stud Ø	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T30RSBS5-PA66HS-BK		5.0	3.5	150.0	35.0	135	1-2;4-5;25	156-03702
T50RSBS5-PA66HS-BK		5.0	4.6	200.0	45.0	225	1-2;4-7;25	150-21291
T50ROSSBS5-PA66HS-BK		M5	4.6	200.0	45.0	225	1-2;4-5;25	150-21299

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



2-piece fixing ties for weld studs

with disc (for isolation material)

Primarily designed for use in the automotive industry, these parts can be used in a wide variety of applications where weld studs or ISO bolts are used and cables need to be bundled and secured.

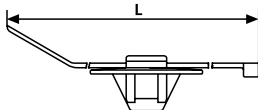
Features and benefits

- Pre-assembled with cable tie and weld stud mounting base
- Quick and easy installation
- Head rotates into perfect position for installation
- 'Soft-push' design for tool-free installation
- Mushroom-shaped SBH handles insulation or a sound-deadening blanket



Two Piece Fixing Tie T50RSBH5SD for weld studs.

Material specifications: See Article-No. on our website.



T50RSBH5

PART DESCRIPTION	Drawing	Stud Ø	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T50SOSSBH5E-PA66HS-BK		5.0	4.6	166.4	35.0	225	1-2;4-7;25	155-05701
T50ROSSBH5SD-PA66HS-BK		5.0	4.6	200.0	45.0	225	1-2;4-5;25	156-05905
T50RSBH5SD-14-PA66HS-BK		5.0	4.6	200.0	45.0	225	1-2;4-5;25	156-01422
T50RSBH5-10-PA66HS/PA66HIRHS-BK		5.0	4.6	202.0	45.0	225	1-2;4-7;25	156-00536

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



Fixing elements for weld studs

SB-Series

Many industries (but specifically the automotive market) are using weld studs as the standard method of attaching components. Simply hammered onto the stud these parts provide ideal fixing bases for attaching cables, pipes or hose.

The use of weld studs avoids the problems with holes (ingress of moisture, corrosion etc).

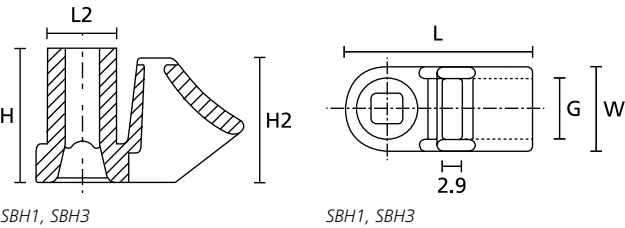
Features and benefits

- Simple and quick method of fixing
- SBH1 and SBH3 allow cables to run across the panel



SBH2 allow cables to run at 90° to the panel.

Material specifications: See Article-No. on our website.



PART DESCRIPTION	Drawing	Stud Ø	Width (W)	Length (L)	Length (L2)	Height (H)	Height (H2)	Strap Width max. (G)	Article-No.
SBH1-PA66-BK		5.0	12.5	26.8	9.0	13.9	15.9	8.5	151-02260
SBH3-PA66-BK		5.0	12.5	26.8	9.0	18.0	15.9	8.5	151-02279

Recommended Tools: 7=EVO9i, 9=EVO9iHT, 10=MK9P. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



Fixing elements for weld studs

for tubes and harnesses with automatic locking feature

Offering a simple and secure method of attaching pipes or hoses to panels. Originally designed for the automotive industry they are finding a wide variety of applications in all industries using sheet metal panels with studs or weld studs. The use of weld studs avoid the problems with 'holes' (ingress of moisture, corrosion etc.).

Features and benefits

- missing Text!



Material specifications: See Article-No. on our website.

PART DESCRIPTION	Stud Ø	Height (H)	Width (W)	Length (L)	Pack Cont.	Article-No.
DCTC16SBS6-PA66HIRHS/TPE-BK/GN	M6	45.8	14.0	66.7	1000 pcs.	151-04189

All dimensions in mm. Subject to technical changes.

for tubes and harnesses with automatic locking feature

Material specifications: See Article-No. on our website.



PART DESCRIPTION	Stud Ø	Height (H)	Width (W)	Length (L)	Pack Cont.	Article-No.
DCTC20SBS6-PA66HIRHS/TPE-BK/GN	M6	22.9	15.0	146.5	1000 pcs.	151-04190

All dimensions in mm. Subject to technical changes.



Fixing elements for weld studs

ATSSB5-6

Primarily designed for use in the automotive industry, these parts can be used in a wide variety of applications where 5mm weld studs or 5mm ISO bolts are used and cables need to be bundled and secured.

Features and benefits

- Quick and easy installation
- SBS ideal for installation prior to attaching cable (i.e. no lateral tolerances required)



Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Stud Ø	Article-No.
ATS SB5-6-PA66HIRHS-BK		5.0, 6.0	102-69061

All dimensions in mm. Subject to technical changes.



1-piece fixing ties with mounting head for screws

M-Series

This range of one piece cable ties have a built in mounting hole and once fastened around the cables the bundle can be simply secured to the panel with a screw or bolt. The tie is fitted to the panel first and then the cables can be added.

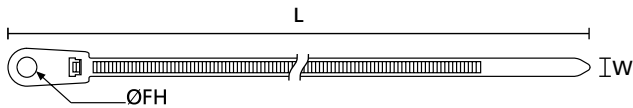
Features and benefits

- One-piece bundling and fixing tie
- Quick and easy installation



The mounting head ties can be easily screwed onto a panel.

Material specifications: See Article-No. on our website.



T(MR Series with Mounting Head for Screw fixing

PART DESCRIPTION	Drawing	Hole Ø (FH)	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T18MR-PA66-NA		3.1	2.5	110.0	20.0	80	2;4-5;25	113-01819
T18MR-PA66HS-NA		3.1	2.5	111.0	20.0	80	2;4-5;25	113-00042
T30MR-PA66HSUV-BK		4.1	3.5	157.0	32.0	135	1-2;4-5;25	113-00046
T30MR-PA66-BK		4.3	3.5	160.0	32.0	135	1-2;4-5;25	113-03010
T50MR-PA66-BK		5.4	4.7	215.0	45.0	225	1-2;4-7;25	113-00053

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



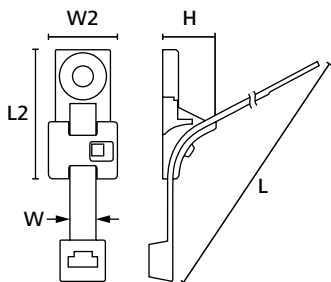
2-piece fixing ties for heavy duty applications, for screws

HDM-Series

Used mainly in the transport sector, HDM mounts can find various applications depending on their environment. In the automotive sector, these mounts are mainly used to hold engine harnesses. Thanks to their high resistance to heat and movement, harnesses will be maintained securely. They are also found in the railway sector to maintain corrugated tubing and train harnesses. They can also be used in the military and naval sectors to route electrical cables in vehicles. Thanks to its many properties, HDM mounts can be used in many environments.

Features and benefits

- Pre-assembled 2-piece fixing tie
- Cable tie head can be moved after bundling
- Secure alignment to the bundle due to H-design
- A suitable alternative for metal clamps
- Withstands vibrations and displacement forces
- High tightening torque through metal bushing



HDM with cable tie (L = length of the tie "flat")



These HDM (Heavy duty mount) are suitable for assembling on screws.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Width (W)	Width (W2)	Length (L)	Length (L2)	Height (H)	Mounting Screw Type	Bundle Ø max.	Tools	Article-No.
T120RHDM6-PA66HIRHS-BK	7.6	20.0	390.0	37.5	16.0	M6 Screw	105.0	1;3;6-7;9-10;25	156-00406

Recommended Tools: 7=EVO9i, 9=EVO9iHT. For more information on toolings please refer to the Application Tooling chapter on page 308.
All dimensions in mm. Subject to technical changes.

HDM-Series for M8 screws

PART DESCRIPTION	Width (W)	Width (W2)	Length (L)	Length (L2)	Height (H)	Bundle Ø max.	Article-No.
T120RHDM8-PA46-GY	7.6	20.0	390.0	37.5	16.0	105.0	920-30035

All dimensions in mm. Subject to technical changes.

CPCSeries for M6 screws

PART DESCRIPTION	Width (W)	Length (L)	Height (H)	Hole Ø (FH)	Bundle Ø max.	Article-No.
T50RCPCM6-PA66HS/PA66HIRHS-BK	4.6	202.0	16.0	6.2	50.0	920-30036

All dimensions in mm. Subject to technical changes.



CPCSeries for M6 screws

PART DESCRIPTION	Width (W)	Width (W2)	Length (L)	Length (L2)	Height (H)	Bundle Ø max.	Article-No.
T120RCPCM6-PA66HS/PA66HIRHS-BK	7.6	20.0	387.0	37.5	16.0	105.0	920-30063

All dimensions in mm. Subject to technical changes.



Screwed Ratchet Clamp

for multiple parallel cable routing

The Screwed Ratchet Clamp can be used wherever cables are to be laid in parallel. The clamp can be mounted both horizontally and vertically. In the second assembly step the cables can be inserted. The component can be used to fix various cables or cable combinations as it can be filled in a range from 25 to 150 mm.

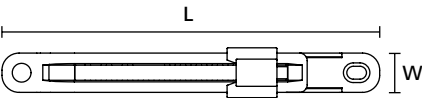
Features and benefits

- Cables and tubes can be bundled in parallel
- Can be opened and closed with one hand and without tools due to lever on the sliding element
- Re-openable, thus cables can be exchanged and added when required
- Can be screwed vertically or horizontally depending on the equipment
- After being screwed the locking cover/ lever is pushed onto the cable
- Allows a flexible accommodation of the cables with regards to the number of cables to be routed

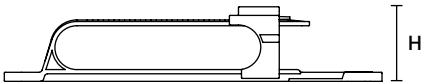


Screwed Ratchet Clamp SRC150M8 for parallel bundling of cables and tubes.

Material specifications: See Article-No. on our website.



SRC150M8 (top view)



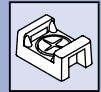
SRC150M8 (side view)

PART DESCRIPTION	Width (W)	Length (L)	Height (H)	Bundle Ø max.	Mounting Screw Type	Pack Cont.	Article-No.
SRC110M6-PA666GF15/PA666GF30-BK	32.4	165.0	29.4	19.0	M6 Screw	25 pcs.	156-03187
SRC150M8-PA6GF30-BK	33.0	250.0	49.4	29.0	M8 Screw	150	156-02742

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Screw fixing mounts

Cable tie mounts with curved design

Designed specifically for holding heavier cable bundles these mounting bases can be used in many industries from agriculture to truck manufacturing. 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.

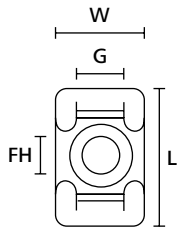
Features and benefits

- Curved design for additional cable support
- Simple to install with a screw or bolt
- Excellent security, particularly in areas of high vibration
- Mounts are available in various sizes and materials

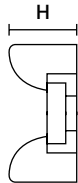


Cable Tie Mounts KR6G5, KR8G5 and CTM.

Material specifications: See Article-No. on our website.



KR6G5, KR8G5 and CTM (plan view)



KR6G5, KR8G5 and CTM (side view)

PART DESCRIPTION	Width (W)	Length (L)	Height (H)	Hole Ø (FH)	Strap Width max. (G)	Pack Cont.	Article-No.
CTM0-PA66-BK	9.4	14.7	6.9	3.8	5.0	100 pcs.	151-30300
CTM0-PA66-WH	9.4	14.7	6.9	3.8	5.0	100 pcs.	151-30303
CTM1-PA66-BK	9.4	14.7	6.9	4.8	5.0	100 pcs.	151-30400
CTM1-PA66-WH	9.4	14.7	6.9	4.8	5.0	100 pcs.	151-30404
KR6G5-E/TFE-BU	11.8	17.8	8.8	4.5	6.4	100 pcs.	151-00653
KR6G5-PA66-BK	12.0	18.0	9.0	4.5	6.0	100 pcs.	151-24600
KR6G5-PA66-NA	12.0	18.0	9.0	4.5	6.0	100 pcs.	151-24619
KR6G5-PA66W-BK	12.0	18.0	9.0	4.5	6.0	100 pcs.	151-24660
KR6G5-PP-BK	12.0	18.0	9.0	4.5	6.0	100 pcs.	151-03286
KR8G5-E/TFE-BU	14.3	24.8	12.1	6.5	8.3	100 pcs.	151-00654
KR8G5-PA66W-BK	14.3	24.8	12.1	6.5	8.3	100 pcs.	151-00554
KR8G5-PA66-NA	14.5	25.0	12.0	6.5	8.0	100 pcs.	151-24819
KR8G5-PA66HS-BK	14.5	25.0	12.0	6.5	8.0	100 pcs.	151-24850
CTM2-PA66-BK	15.5	21.8	9.4	4.6	7.9	100 pcs.	151-30500
CTM2-PA66-WH	15.5	21.8	9.4	4.6	7.9	100 pcs.	151-30504
CTM3-PA66-BK	15.5	21.8	9.4	5.1	7.9	100 pcs.	151-30600
CTM3-PA66-WH	15.5	21.8	9.4	5.1	7.9	100 pcs.	151-30605
CTM4-PA66-BK	15.8	21.8	9.4	6.4	7.9	100 pcs.	151-30700
CTM4-PA66-WH	15.8	21.8	9.4	6.4	7.9	100 pcs.	151-30703

All dimensions in mm. Subject to technical changes.



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Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Screw fixing mounts

CTAM-Series for applications where space is limited

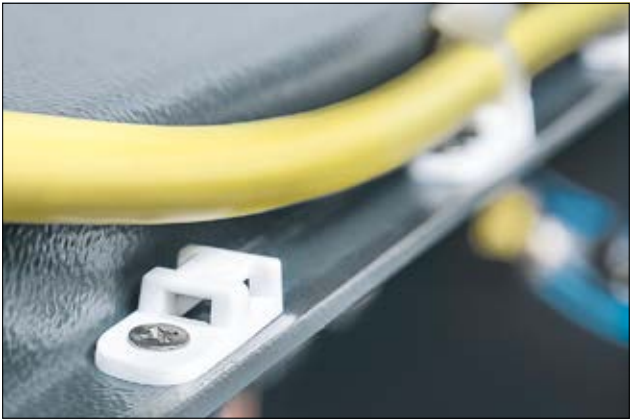
The CTAM series offers a range of mounting solutions that combine ease of installation with durability. Designed for a wide range of applications, these mounts are particularly valued in telecommunications equipment, switchgear and control cabinets. Thanks to their robust design, they are also a proven choice in the aerospace and railroad industries.

MCCTAM mounts (MC = Metal Content) are specially designed for use in hygiene-sensitive areas such as the food industry. Due to the integrated metal content, they can be detected by standard metal detection systems, which reduces the risk of contamination. They hold the MCT series cable ties securely in place, even in high vibration environments such as food processing machines and automated packaging lines.

All products in this range are screw-fastened, ensuring a stable and durable fastening even under dynamic loads.

Features and benefits

- Suitable for applications with minimal space
- Mounted before cable installation and in line with cable
- 4-way entry design for use in line or at 90° angle to cable run
- Available in different sizes and materials

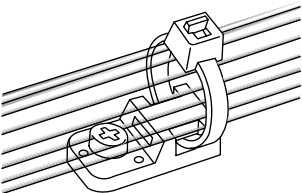


CTAM mounts for applications with limited space.

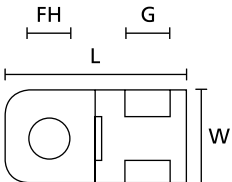


Detectable fixing solution containing of MCCTAM1 mount and MCTS cable tie.

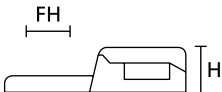
Material specifications: See Article-No. on our website.



CTAM-Series in application



CTAM-Series (plan view)



CTAM-Series (side view)

PART DESCRIPTION	Width (W)	Length (L)	Height (H)	Hole Ø (FH)	Strap Width max. (G)	Pack Cont.	Article-No.
CTAM1-PA66-WH	10.2	20.4	5.1	4.3	5.0	100 pcs.	151-31103
CTAM2-PA66-WH	10.2	20.4	5.1	5.2	5.0	100 pcs.	151-31203
CTAM1-PA66-NA	10.2	20.5	5.1	4.3	5.0	100 pcs.	151-00539
CTAM1-PEEK-BGE	10.2	20.5	5.5	4.3	5.0	100 pcs.	151-00757
CTAM2-PEEK-BGE	10.2	20.5	5.5	5.1	5.0	100 pcs.	151-00758

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Screw fixing mounts

LKC-, NY- and LOK-series with overlapping curved design

Designed specifically for holding heavier cable bundles, these mounting bases can be used in many industries from agriculture to truck manufacturing. They offer a very secure fixing and can be used with a wide variety of heavy duty cable ties up to 13 mm width.

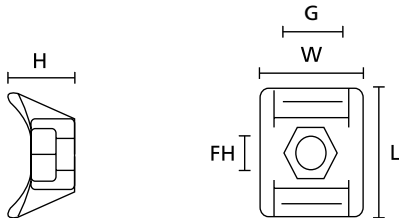
Features and benefits

- Curved design for additional cable support
- Simple to install with a screw or bolt
- Excellent security, particularly in areas of high vibration



LOK02 fixing base application.

Material specifications: See Article-No. on our website.



NY3256 (side view)

NY3256 (plan view)

PART DESCRIPTION	Drawing	Width (W)	Length (L)	Height (H)	Hole Ø (FH)	Strap Width max. (G)	Pack Cont.	Article-No.
LKCSF1-PA66-BK		19.0	40.0	16.8	6.0	13.0	100 pcs.	151-27202
LKC-PA66-NA		17.0	25.0	13.5	5.5	8.0	100 pcs.	151-27019

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Screw fixing mounts

LKM / CL / FH with curved design for sideways fixing

In areas with limited space these mounting bases allow the cable to be offset from the fixing hole, and can be installed in the equipment prior to the cable installation. A major cost saving can be made using these products as they will allow the use of many different sizes of standard cable ties without the need to stock a wide range of specific fixing ties.

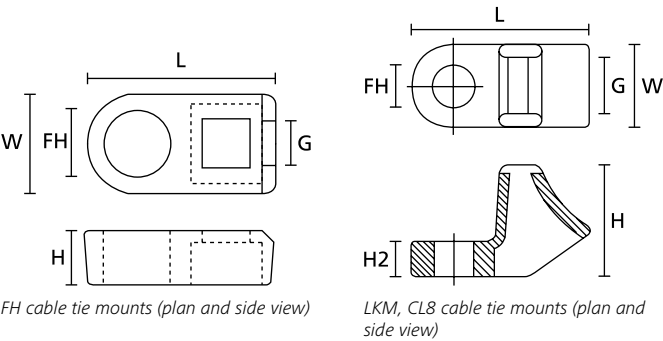
Features and benefits

- Small overall size for areas with limited mounting space
- Screwable mounts for fixing cable sideways
- Ideal for securing large, heavier bundles
- Suitable for cable ties up to 8 mm width



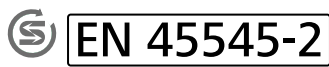
LKM, CL8 and FH cable tie mounts for applications with limited space.

Material specifications: See Article-No. on our website.



PART DESCRIPTION	Width (W)	Length (L)	Height (H)	Height (H2)	Hole Ø (FH)	Strap Width max. (G)	Pack Cont.	Article-No.
CL8-PA66-NA	12.5	27.3	16.0	5.0	6.5	8.0	100 pcs.	151-02258

Recommended Tools: 7=EVO9i, 9=EVO9iHT, 10=MK9P. For more information on toolings please refer to the Application Tooling chapter on page 310.
All dimensions in mm. Subject to technical changes.



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Clamps with elastical loop

Cradle clamp

Simple and versatile method of bundling cables. These clamps consist of two parts. The clamping base for mounting onto a panel and the elastical loop.

Features and benefits

- 2-piece fixing system consisting of a clamping base (C-part) and a reusable retaining ring (R-part)
- Allows cables to be added or removed after installation without tools
- Elastic loop enables quick and secure cable fastening by simply stretching over the clamp
- Suitable for dynamic environments where rework or maintenance is required
- Reopenable and reusable design supports sustainable cable management solutions
- Space-saving and simple method for routing and bundling cables on control panels

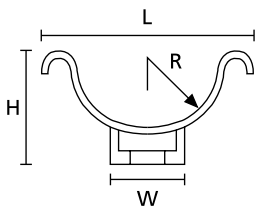


Cradle clamp - 2-piece fixing part consisting of clamp and retaining ring. The simple and versatile method of bundling cables.

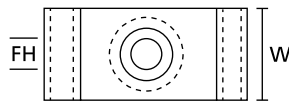


2-Piece fixing cradle clamp.

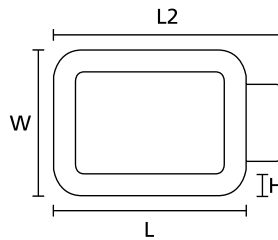
Material specifications: See Article-No. on our website.



Cradle clamp (front view)



Cradle clamp (plan view)



Retaining ring R1 - 3

PART DESCRIPTION	Length (L2)	Height (H)	Radius (R)	Width (W)	Hole Ø (FH)	Length (L)	Pack Cont.	Article-No.
C1-PA6HIR-BK	-	14.0	6.3	12.7	4.8	22.0	100 pcs.	201-10010
C2-PA6HIR-BK	-	18.0	11.0	12.7	4.8	35.0	100 pcs.	201-10020
C3-PA6HIR-BK	-	25.0	17.5	12.7	4.8	48.0	100 pcs.	201-10030
R2-PVC-BK	29.0	3.2	-	23.8	-	22.0	500 pcs.	201-20020
R3-PVC-BK	39.0	3.2	-	23.8	-	33.0	500 pcs.	201-20030
R1-PVC-BK	22.0	3.2	-	23.8	-	16.0	500 pcs.	201-20010

All dimensions in mm. Subject to technical changes.



Harness clip for heavy duty applications, for screws or threaded bolts

Standard torque mounts

These heavy duty mounts (HDM) have been primarily designed for use in the automotive and truck industry. Nowadays they can be found in a variety of applications requiring heavy duty mounting in areas like the railway, defence and/or agriculture industry.

Features and benefits

- Design offers secure alignment to the bundle
- Possible replacement of cushion clamps and/or metal clamps
- Eliminates the needs for multiple sized fix diameter clamps
- For heavy duty cable ties up to 12.7 mm width
- High tightening torque
- Easy maintenance of bundle by simply changing the cable tie



Heavy Duty Mounts HDM-Series, patent number US5820083.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Width (W)	Length (L)	Height (H)	Hole Ø (FH)	Strap Width max. (G)	Pack Cont.	Article-No.
HDM25-PA66HIRHSUV-BK		19.3	36.3	16.7	6.2	12.7	500 pcs.	151-00438

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.

Medium torque mounts

PART DESCRIPTION	Drawing	Width (W)	Length (L)	Height (H)	Hole Ø (FH)	Strap Width max. (G)	Pack Cont.	Article-No.
HDM321-PA66HIRHSUV-BK		24.0	46.0	20.7	8.31	12.7	500 pcs.	151-07100
HDM401-PA66HIRHSUV-BK		24.0	46.0	20.7	10.29	12.7	500 pcs.	151-07300

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.

High torque mounts

PART DESCRIPTION	Drawing	Width (W)	Length (L)	Height (H)	Hole Ø (FH)	Strap Width max. (G)	Pack Cont.	Article-No.
HDM320-PA66HIRHSUV-BK		25.0	47.0	20.7	8.31	12.7	500 pcs.	151-02094
HDM400-PA66HIRHSUV-BK		25.0	47.0	20.7	10.29	12.7	500 pcs.	151-01224
HDM375BDM4W-R-PA66HIRHSUV-BK		34.1	89.0	25.2	10.29	12.7	100 pcs.	151-02104

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Two way saddle mount for heavy duty applications, for parallel separation

for screws or studs

Heavy duty saddle mounts can be installed between two bundles to separate them and prevent chafing and wear. Fastened to a frame rail or mounting bracket, the special profile on the saddle mount provides a tight circumferential loop on large and small bundles. The saddle mount is an ideal assistant in many applications within the railway, truck and agricultural vehicle construction as well as in the ship building industry.

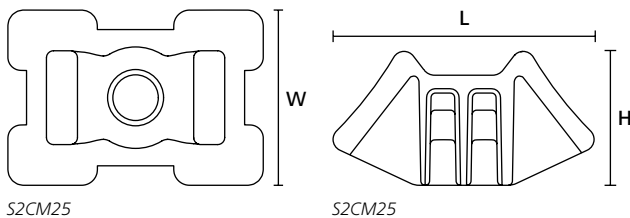
Features and benefits

- For parallel routing of different bundles to avoid wear and chafing
- Offers secure alignment to the bundle
- Can be used in combination with heavy duty cable ties
- Easy maintenance of bundle by simply changing the cable tie
- S2HM25 can be used with hex head screws 6.35



This saddle mount is installed between two bundles to separate them and prevent chafing and wear.

Material specifications: See Article-No. on our website.



S2CM25

S2CM25

PART DESCRIPTION	Drawing	Width (W)	Length (L)	Height (H)	Hole Ø (FH)	Strap Width max. (G)	Pack Cont.	Article-No.
S2CM25-PA66HIRHS-GY		30.0	45.0	23.0	6.0 6.35	13.5	500 pcs.	151-29400
S2HM25-PA66HIRHSUV-BK		30.0	45.0	23.0	6.0 6.35	13.5	500 pcs.	151-29403

All dimensions in mm. Subject to technical changes.



Two way mount for heavy duty applications

for parallel separation

Low Profile Mounts secure bundles close to mounting surfaces, making them ideal for applications where bundle mounting space is limited. These are secured with a screw, and have a counter bore for easy access with a socket which can be torqued up to 100 in/lbs.

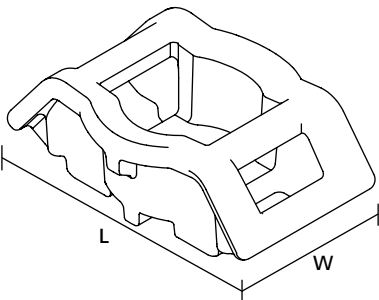
Features and benefits

- 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



Low profile design allows mount to be placed in areas where space is limited.

Material specifications: See Article-No. on our website.



PART DESCRIPTION	Drawing	Width (W)	Length (L)	Hole Ø (FH)	Strap Width max. (G)	Pack Cont.	Article-No.
LPM25-PA66HIRHSUV-BK		24.9	45.1	6.7	13.5	500 pcs.	151-01122

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Harness clip for heavy duty applications, for screws or threaded bolts for edges

SA-Series

This axial oval mount stands off bundles from frame rails and cross members to prevent them from rubbing and chafing. They can be perfectly used in combination with heavy duty cable ties up to 12.7 mm width – ideal to securely fix cables and wires in the railway and shipbuilding industry as well as in truck and agricultural vehicle construction.

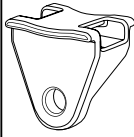
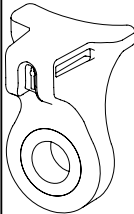
Features and benefits

- Guides bundles securely above sharp edges
- For threaded bolts or screws
- Can be used in combination with heavy duty cable ties
- For cable ties up to 12.7 mm width



Axial oval mounts stand off bundles from frame rails and cross members to prevent them from rubbing and chafing.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Width (W)	Length (L)	Height (H)	Hole Ø (FH)	Strap Width max. (G)	Pack Cont.	Article-No.
SAM83-PA66HIRHS-GY		26.0	34.0	35.0	8.0	12.7	500 pcs.	151-29600
SAM320B-R-PA66HIRHSUV-BK		25.0	29.9	44.9	8.31	12.7	500 pcs.	151-02099

All dimensions in mm. Subject to technical changes.



Heavy duty mounts for 3-way routing

for screws or studs

These 3-way routing saddle mounts are designed to secure up to three bundles for multiple routing and reduce chaving or wear to those bundles. Applicable for various applications within the OEM, mass transit, defence or heavy truck and automotive markets.

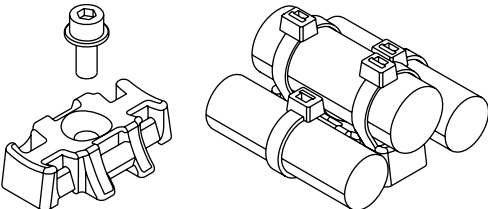
Features and benefits

- For parallel routing of bundles
- Secure alignment to the bundle due to H-design
- Easy maintenance of bundle by simply changing cable tie
- Cable tie head can be moved after bundling



S3SB15CBM8 and S3CBM8.

Material specifications: See Article-No. on our website.

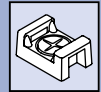


Suitable for external cylindrical hexagonal bolts M8

Example of a possible 3-way transfer

PART DESCRIPTION	Drawing	Width (W)	Length (L)	Height (H)	Strap Width max. (G)	Hole Ø (FH)	Pack Cont.	Article-No.
S3CBM8-PA6GF30-BK		46.0	70.0	18.6	9.0	8.0	500 pcs.	151-01040

All dimensions in mm. Subject to technical changes.



Ratchet P-Clamp

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 in- and outdoors. 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
- 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, in- and outdoors
- Steel mounting plate tolerates high torque mounting and is treated to resist chemicals and salt spray

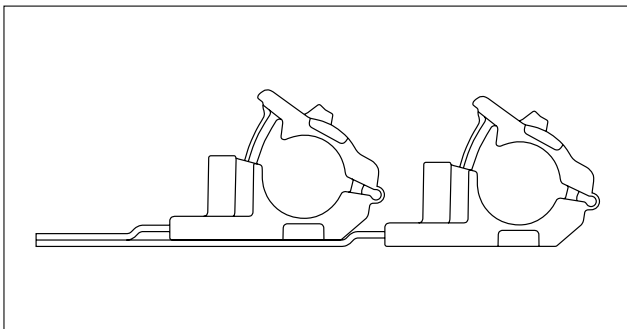


Ratchet P-Clamp - A more versatile way to mount and clamp cables.

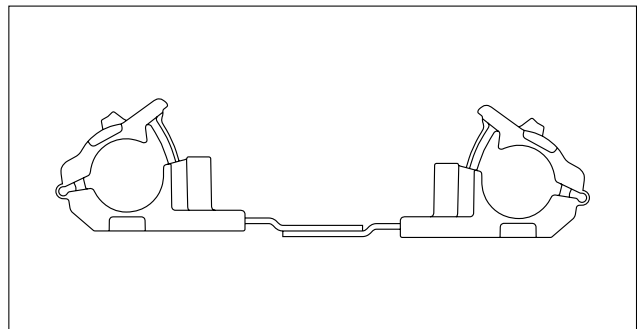
Multiple configurations

The wiring schemes in heavy duty applications become more complex day after day. Using a single mounting point, you can combine Ratchet P-Clamps to match the number, position and diameters of the wires or bundles inherent to today's wire management challenges. You will see

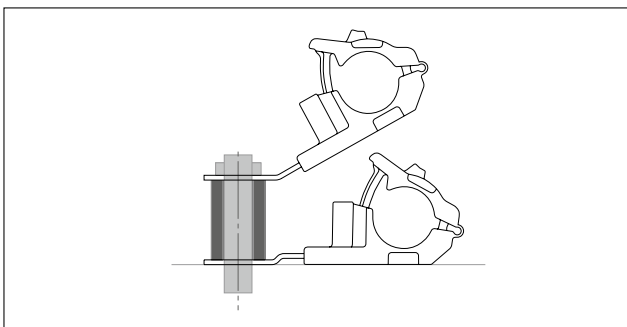
below just a few of the nearly endless number of configurations you can arrange by mixing Ratchet P-Clamps of varying sizes and different mounting plates.



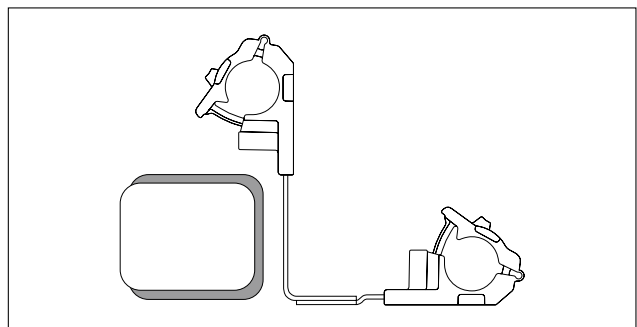
You can piggy-back Ratchet P-Clamps by using different length mounting plates to secure parallel cable configurations.



Ratchet P-Clamp mounting plates are shaped to allow face-to-face positioning. By using different length mounting plates, you can vary the distance between bundles and take advantage of the optimal routing path.



Add a spacer between Ratchet P-Clamps to speed installation and maintenance of stacked wire bundles.



90° angle mounting plates enable you to work around obstacles and protect wire from contacting moving parts.



Cable Ties and Fixings

Fixing products for screws

For bundle diameters from 6.2 mm to 13.7 mm, A-Series

PART DESCRIPTION	Drawing	Width (W)	Length (L2)	Bundle Ø min.	Bundle Ø max.	Hole Ø (FH)	Fixing Hole Centres (F)	Variant	Article-No.
RCA180SM10-PA66HIRHSUV/ST/ZN-BK		34.9	83.1	6.2	13.7	10.29	50.5	Short	151-01417

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.

For bundle diameters from 12.7 mm to 19.5 mm, B-Series

PART DESCRIPTION	Drawing	Width (W)	Length (L2)	Bundle Ø min.	Bundle Ø max.	Hole Ø (FH)	Fixing Hole Centres (F)	Variant	Article-No.
RCB90SM12-PA66HIRHSUV/ST/ZN-BK		34.9	68.8	12.7	19.5	12.95	26.7	Short	151-01459

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



For bundle diameters from 19.4 mm to 36.0 mm, C-Series

PART DESCRIPTION	Drawing	Width (W)	Length (L2)	Bundle Ø min.	Bundle Ø max.	Hole Ø (FH)	Fixing Hole Centres (F)	Variant	Article-No.
RCC15SM12-PA66HIRHSUV/ST/ZN-BK		34.9	103.5	19.4	36.0	12.95	62.3	Short	151-01485
RCC180LM12-PA66HIRHSUV/ST/ZN-BK		34.9	154.0	19.4	36.0	12.95	113.3	Long	151-01482
RCC180MM12-PA66HIRHSUV/ST/ZN-BK		34.9	125.0	19.4	36.0	12.95	84.3	Medium	151-01479
RCC180SM8-PA66HIRHSUV/ST/ZN-BK		34.9	103.0	19.4	36.0	8.31	62.3	Short	151-01474
RCC180SM12-PA66HIRHSUV/ST/ZN-BK		34.9	103.0	19.4	36.0	12.95	62.3	Short	151-01476
RCC30LM12-PA66HIRHSUV/ST/ZN-BK		34.9	114.9	19.4	36.0	12.95	75.2	Long	151-01491
RCC30SM12-PA66HIRHSUV/ST/ZN-BK		34.9	90.2	19.4	36.0	12.95	50.5	Short	151-01488
RCC90LM12-PA66HIRHSUV/ST/ZN-BK		34.9	129.2	19.4	36.0	12.95	39.9	Long	151-01497
RCC90SM12-PA66HIRHSUV/ST/ZN-BK		34.9	101.2	19.4	36.0	12.95	39.9	Short	151-01494

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



For bundle diameters from 36.0 mm to 51.0 mm, D-Series

PART DESCRIPTION	Drawing	Width (W)	Length (L2)	Bundle Ø min.	Bundle Ø max.	Hole Ø (FH)	Fixing Hole Centres (F)	Variant	Article-No.
RCD15SM8-PA66HIRHSUV/ST/ZN-BK		34.9	115.9	36.0	51.0	8.31	69.1	Short	151-01509
RCD180LM8-PA66HIRHSUV/ST/ZN-BK		34.9	166.5	36.0	51.0	8.31	121.0	Long	151-01506
RCD180MM8-PA66HIRHSUV/ST/ZN-BK		34.9	137.5	36.0	51.0	8.31	92.0	Medium	151-01503
RCD180SM8-PA66HIRHSUV/ST/ZN-BK		34.9	115.5	36.0	51.0	8.31	70.0	Short	151-03044
RCD30LM8-PA66HIRHSUV/ST/ZN-BK		34.9	127.0	36.0	51.0	8.31	80.5	Long	151-01515
RCD30SM8-PA66HIRHSUV/ST/ZN-BK		34.9	102.4	36.0	51.0	8.31	55.9	Short	151-01512
RCD90LM8-PA66HIRHSUV/ST/ZN-BK		34.9	116.7	36.0	51.0	8.31	42.4	Long	151-01521
RCD90LM10-PA66HIRHSUV/ST/ZN-BK		34.9	116.7	36.0	51.0	10.29	42.4	Long	151-01522
RCD90SM8-PA66HIRHSUV/ST/ZN-BK		34.9	88.7	36.0	51.0	8.31	42.4	Short	151-01518

All dimensions in mm. Subject to technical changes.



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Heavy duty cable clamps

screwable, Inline Ratchet Clamps

The Inline Ratchet Clamp family is a perfect fit when facing space constraints or where offset mounting options are not ideal. Easily twists onto existing threaded rods, eliminating the need for additional hardware. The robust design and durable materials make it ideal for heavy duty applications, both in- and outdoors. 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 allows the clamp to be reused without removing or replacing any bolts or screws.

Features and benefits

- Building on the Ratchet P-Clamp family, the Center Mount Ratchet Clamp (CMRC) family offers fast and versatile installation of lines, hoses and cables
- Designed for applications where space is limited or when a staggered mounting option is not ideal
- Depending on the variant, the CMRC can be screwed on with an M6/M8/M10 screw or attached to an M8 threaded bolt
- The variants for bolt attachment enable time-saving installation with a reliable hold

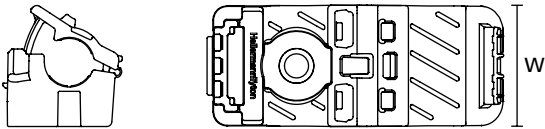


The Inline Ratchet Clamp family is a perfect fit when facing space constraints.



Inline Center Mount series, CMRCBLM6.

Material specifications: See Article-No. on our website.



PART DESCRIPTION	Hole Ø (FH)	Width (W)	Bundle Ø min.	Length (L)	Bundle Ø max.	Height (H)		Pack Cont.	Article-No.
CMRCBHM6-PA66HIRHSUV-BK	7.0	35.1	12.7	86.1	19.6	30.4	889	150 pcs.	151-03538

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Aluminium P-Clamps

Alu-P-Clamp with / without chloroprene insert

Manufactured from a high quality aluminium, these metal P-Clamps provide flexibility whilst providing a permanent fixing in the most arduous of environments. The addition of a chloroprene insert provides the cable or pipe bundle with a high degree of protection against vibration, reducing noise and also providing electrical isolation. They are commonly used in caravan construction, the defence and railway industry as well as in the renewable energy sector.

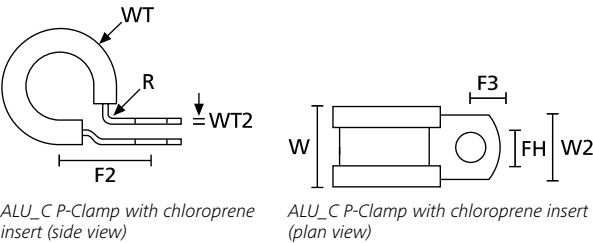
Features and benefits

- Simple and secure pipe or cable fixation
- Can be combined with chloroprene rubber for vibration resistance
- Ideal for use in high temperature applications
- Suitable for applications needing strength of metal components



P-Clamps manufactured in polyamide, aluminium or aluminium with a chloroprene insert.

Material specifications: See Article-No. on our website.

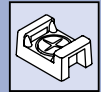


PART DESCRIPTION	Width (W)	Width (W2)	Wall (WT)	Wall (WT2)	Hole Ø (FH)	Fixing Hole Centres (F2)	Fixing Hole Centres (F3)	Bundle Ø max.	Radius (R)	Article-No.
ALU10C-CR/AL-BK	16.3	12.7	3.70	0.8	5.2	16.6	5.5	12.7	1.6	211-15100
ALU7C-AL/CR-BK	16.3	12.7	3.70	0.8	5.2	14.2	5.5	8.0	1.6	211-15070
ALU9C-AL/CR-BK	16.3	12.7	3.70	0.8	5.2	15.8	5.5	11.1	1.6	211-15090
ALU12C-AL/CR-BK	16.3	12.7	4.50	1.3	5.2	19.9	5.5	15.9	2.8	211-15120
ALU13C-AL/CR-BK	16.3	12.7	4.50	1.3	5.2	20.7	5.5	17.5	2.8	211-15130
ALU14C-AL/CR-BK	16.3	12.7	4.50	1.3	5.2	21.5	5.5	19.1	2.8	211-15140
ALU16C-AL/CR-BK	16.3	12.7	4.50	1.3	5.2	23.1	5.5	22.2	2.8	211-15160
ALU15C-AL/CR-BK	16.3	12.7	4.50	1.3	5.2	22.3	5.5	20.6	2.8	211-15150
ALU20C-AL/CR-BK	16.3	12.7	4.50	1.6	5.2	27.0	5.5	28.6	3.2	211-15200

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Plastic P-Clamps

HP-Series

For permanent or semi-permanent cable fixings this range of plastic P-Clamps can be used in many industries. Their light weight makes them particularly suitable for use in areas such as aircraft and aerospace where minimising weight, but retaining a strong fixing, is vitally important.

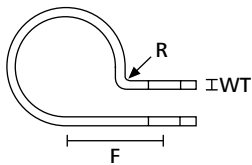
Features and benefits

- Manufactured from Polyamide
- Good temperature resistance and high strength
- Wide range of sizes for every application
- Can be used without cable ties



P-Clamps H1P - H18P in different dimensions.

Material specifications: See Article-No. on our website.



P-Clamp H1P - H18P (side view)



P-Clamp H1P - H18P (plan view)

PART DESCRIPTION	Width (W)	Wall (WT)	Hole Ø (FH)	Fixing Hole Centres (F)	Radius (R)	Bundle Ø max.	Pack Cont.	Article-No.
H1P-PA66-NA	10.0	0.80	4.2	8.5	0.5	3.2	1000 pcs.	211-60019
H1P-PA66HS-BK	10.0	0.80	4.2	8.5	0.5	3.2	100 pcs.	211-60000
H2P-PA66-NA	10.0	1.00	4.2	9.5	1.0	5.0	1000 pcs.	211-60029
H2P-PA66HS-BK	10.0	1.00	4.2	9.5	1.0	5.0	100 pcs.	211-60001
H3P-PA66-NA	10.0	1.00	4.2	10.0	1.0	6.5	1000 pcs.	211-60039
H3P-PA66HS-BK	10.0	1.00	4.2	10.0	1.0	6.5	100 pcs.	211-60002
H4P-PA66-NA	10.0	1.20	4.2	10.0	1.0	8.0	1000 pcs.	211-60049
H4P-PA66HS-BK	10.0	1.20	4.2	10.0	1.0	8.0	100 pcs.	211-60003
H5P-PA66-NA	10.0	1.20	4.2	11.0	1.0	9.5	1000 pcs.	211-60059
H5P-PA66HS-BK	10.0	1.20	4.2	11.0	1.0	9.5	100 pcs.	211-60004
H6P-PA66-NA	10.0	1.20	4.2	13.0	1.0	11.0	1000 pcs.	211-60069
H6P-PA66HS-BK	10.0	1.20	4.2	13.0	1.0	11.0	100 pcs.	211-60005
H7P-PA66HS-BK	10.0	1.20	4.2	14.0	1.5	12.5	100 pcs.	211-60006
H8P-PA66-NA	10.0	1.50	4.2	15.0	1.5	14.0	1000 pcs.	211-60089
H8P-PA66HS-BK	10.0	1.50	4.2	15.0	1.5	14.0	100 pcs.	211-60007
H9P-PA66-NA	10.0	1.50	4.2	16.0	1.5	16.0	1000 pcs.	211-60099
H9P-PA66HS-BK	10.0	1.50	4.2	16.0	1.5	16.0	100 pcs.	211-60008
H10P-PA66HS-BK	10.0	1.50	4.2	17.0	1.5	17.5	100 pcs.	211-60009
H11P-PA66-NA	10.0	1.50	4.2	18.0	2.0	19.0	1000 pcs.	211-60119
H12P-PA66-NA	10.0	1.50	4.2	19.0	2.0	20.5	1000 pcs.	211-60129
H13P-PA66-NA	12.0	1.50	5.2	20.5	2.0	22.0	500 pcs.	211-60139
H14P-PA66-NA	12.0	1.50	5.2	21.5	2.0	24.0	500 pcs.	211-60149

All dimensions in mm. Subject to technical changes.



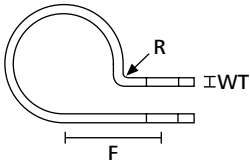
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Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.

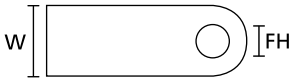


Plastic P-Clamps

HP-Series



P-Clamp H1P - H18P (side view)



P-Clamp H1P - H18P (plan view)

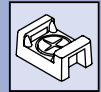
PART DESCRIPTION	Width (W)	Wall (WT)	Hole Ø (FH)	Fixing Hole Centres (F)	Radius (R)	Bundle Ø max.	Pack Cont.	Article-No.
H15P-PA66-NA	12.0	1.50	5.2	23.0	2.5	25.5	500 pcs.	211-60159
H16P-PA66-NA	12.0	1.50	5.2	24.0	2.5	28.5	500 pcs.	211-60169
H18P-PA66-NA	12.0	1.50	5.2	27.5	2.5	35.0	250 pcs.	211-60189
NX14-PA66-BK	16.0	1.50	4.3	-	-	25.4	100 pcs.	221-10140

All dimensions in mm. Subject to technical changes.



EN 45545-2

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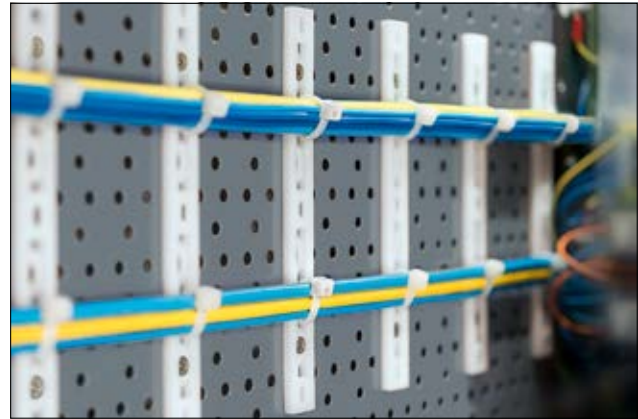
Mounting plates for screw fixing

MP-Series for parallel bundling

Many applications require each cable run to be firmly held in place but to be held separately from adjacent cable runs (example - control cabinets, machinery and military systems). The MP series of mounts can achieve this.

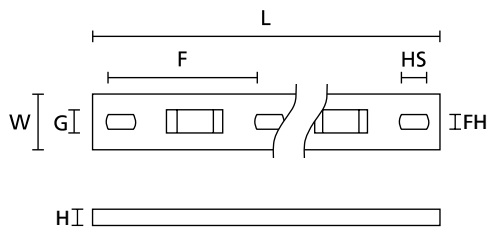
Features and benefits

- Allow multiple cables to run in parallel
- Simple to fix with two screws
- Cables are fixed by using a cable tie through any combination of the available slots

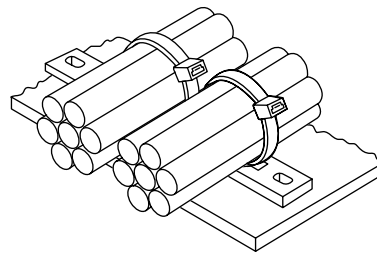


Screwable mounting plate MSMP

Material specifications: See Article-No. on our website.



Mounting plates MP and MSMP (plan and side view)



Mounting plates in application

PART DESCRIPTION	Width (W)	Length (L)	Height (H)	Fixing Hole Centres (F)	Hole Ø (FH)	Strap Width max. (G)	No. of bundles	Pack Cont.	Article-No.
MP2M3-PA66-NA	12.7	76.2	3.2	31.8	3.7	5.2	2	100 pcs.	151-24219
MP3M3-PA66-NA	12.7	108.0	3.2	31.8	3.7	5.2	3	100 pcs.	151-24319
MP4M3-PA66-NA	12.7	139.8	3.2	31.8	3.7	5.2	4	100 pcs.	151-24419
MSMP6/6-PA66-NA	15.7	243.0	5.3	38.0	3.8	7.6	6	100 pcs.	151-25619
MSMP5/10-PA66-NA	15.8	204.5	5.3	38.0	5.1	7.6	5	100 pcs.	151-25519
MSMP4-PA66-NA	15.9	167.0	5.2	19.0	5.1	8.2	4	500 pcs.	150-83499

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Cable Cleat Stainless Steel

Cable Cleat Trefoil

Cable cleats are designed to secure and support electrical cables within cable management systems, especially in environments exposed to high fault currents. Their primary role is to maintain cable alignment and containment under both normal operating conditions and during short-circuit events, where electromechanical forces can be extremely severe. Short circuits are unpredictable and potentially destructive when they occur, they pose serious risk to cables, infrastructure and personnel. That's why proper selection and installation of cable cleats is essential to ensure system integrity, protect equipment and people, comply with industry standards such as IEC61914, safeguarding your operations with confidence and reliability.

Features and benefits

- Complies with IEC61914-2021 industry standards
- Marine grade SS316L
- Supplied with Hardware SS316L M8, M10 or M12 bolt and nylon lock nut
- Easy to install
- Ensures system integrity
- Protects people and equipment
- Retains cable under electromechanical forces caused by short circuit events
- 180kA peek at 300mm spacing
- 125kA peek at 600mm spacing
- Very heavy impact resistance
- Lateral load test average 25kg
- Axial load test pass
- Needle Flame test 30 seconds
- Resistance to UV light test 1000 hours

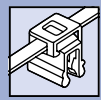


Cable cleats, trefoil

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Width (W)	Height (H)	Cable Ø min	Mounting Screw Type	Cable Ø max	Pack Cont.	Article-No.
CCT023-SS316L/PO-ML	50.0	79.0	18	M10 Screw	23	1 pc.	151-05001

All dimensions in mm. Subject to technical changes.



1-piece fixing ties for edges

EdgeClip series

These cable ties and EdgeClip assemblies are ideal for use where holes are not acceptable or where due to temperature problems adhesives will fail. Once the cable tie is fastened around the cables the EdgeClip is presented ready for attaching to the panel. Widely used within the automotive and panel building industries these cable ties and EdgeClips save time and money.

The silver-grey clamp, the heart of our EdgeClips, consists of doubletempered spring steel in accordance with DIN EN 10132-4 C75S. The spring steel gives the clamp both the necessary rigidity to provide high pull-off forces and also sufficient flexibility for various possible applications.

The double coating is applied initially with a zinc plate system followed by inorganic surface sealing. Naturally, no chromium (VI) is used in this process. The clamp therefore complies with the current EU Directive 200/53/EC on end of life vehicles and the prohibition on heavy metals. The refined spring-steel clamp also fulfils the requirements for resistance to salt spray stipulated in DIN EN ISO 9227 NSS (min. 840 h without corrosion of base metal) and DIN EN ISO 6270-Z-CH (min. 720 h without corrosion of base material).

This solution has therefore been approved by many OEMs for exposed installation locations, e.g. in engine compartments and the running-gear area.



1-Piece Fixing Tie T50SOSEC12 can be pushed easily on edges.

Material specifications: See Article-No. on our website.

Features and benefits

- Easy assembly, just clip on per hand
- For edges of 1 - 3 mm, 1.5 - 4 mm, 3 - 6 mm, 4 - 6 mm or 6 - 8 mm
- Integrated metal clamp holds clip firmly in place
- Clamp consists of double tempered steel spring
- Ideal for applications where holes or adhesives are not suitable



T50SOSEC12E

PART DESCRIPTION	Drawing	Panel Thickness	Width (W)	Length (L)	Length (L2)	Bundle Ø max.	N	Tools	Article-No.
T50SOSEC12E-PA66HS-BK		1.0 - 3.0	4.6	160.0	15.0	35.0	180	1-2;4-7;25	148-00200
T50SOSEC13E-PA66HS-BK		1.0 - 3.0	4.6	160.0	15.0	35.0	180	1-2;4-7;25	126-00000
T50SOSEC34E-PA66HS-BK		1.0 - 3.0	4.6	155.0	15.0	35.0	180	1-2;4-7;25	126-00426

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



2-piece fixing ties for edges

EdgeClip-Series, 0.5 - 2.5 mm, top fixing

These cable ties and EdgeClip assemblies are ideal for use where holes are not acceptable or where adhesives will fail due to temperature problems. These assemblies are widely used for fixing and bundling cables, pipes and hoses within the automotive industry, harness making, panel building and electrical industry. These EdgeClips are specially designed for applications where space is limited such as in mirrors and headlights.

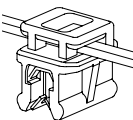
Features and benefits

- For flat edges
- For thin edges 0.5 - 2.5 mm
- Small housing for limited space
- Pre-assembled 2-piece fixing tie with EdgeClip
- Cable tie head can be moved after bundling



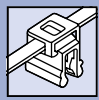
T30ROSEC0,5-2,5SPV for application on thin edges.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Width (W)	Length (L)	Bundle Ø max.		Tools	Article-No.
T30ROSEC0.5-2.5TPVA-PA66HS/PA66HIRHS-BK		3.4	145.0	30.0	133	1-2;4-5;25	156-01542

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



2-piece fixing ties for edges

EdgeClip-Series, 1.0 - 3.0 mm, top fixing

These cable ties and EdgeClip assemblies are ideal for use where holes are not acceptable or where due to temperature problems adhesives will fail. These assemblies are widely used for fixing and bundling cables, pipes and hoses within the automotive industry, harness making, panel building and electrical industry.

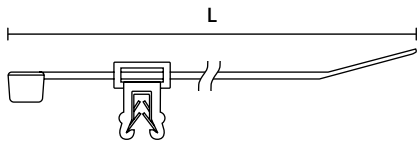
Features and benefits

- Pre-assembled 2-piece fixing tie with EdgeClip
- Cable tie head can be moved after bundling
- EC9, EC10, EC21 and EC22 are for minimum bundle diameters of 1 mm
- For edges of 1 - 3 mm



Edge Clip 10 (EC10) fitted onto a plastic panel to hold a Ø 6 mm harness.

Material specifications: See Article-No. on our website.



Fixing Tie with Edge Clip

PART DESCRIPTION	Drawing	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T50ROSEC4A-PA46-GY		4.6	200.0	45.0	225	1-2;4-7;25	156-03049
T50ROSEC4A-PA66HS/PA66HIRHS-BK		4.6	200.0	45.0	225	1-2;4-7;25	156-02821
T50ROSEC4B-PA46-GY		4.6	200.0	45.0	225	1-2;4-7;25	156-00782
T50ROSEC4B-PA66HS/PA66HIRHS-BK		4.6	200.0	45.0	225	1-2;4-7;25	156-02823
T50ROSEC10-PA66HS/PA66HIRHS-BK		4.6	200.0	45.0	225	1-2;4-7;25	156-05904

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.

EdgeClip-Series, 1.0 - 3.0 mm, top fixing

PART DESCRIPTION	Drawing	Width (W)	Length (L)	Bundle Ø max.	N	Article-No.
T50ROSEC9-PA66HS/PA66HIRHS-BK-PA66HS/PA66HIRHS-BK		4.6	200.0	45.0	225	920-30023

All dimensions in mm. Subject to technical changes.



EdgeClip-Series, 1.0 - 3.0 mm, side fixing

PART DESCRIPTION	Drawing	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T50SOSEC5A-PA66HS/PA66HIRHS-BK		4.6	150.0	31.0	225	1-2;4-7;25	150-40593
T50REC5A-PA66HS/PA66HIRHS-BK		4.6	202.0	45.0	225	1-2;4-7;25	156-01037
T50SOSEC21-PA66HS/PA66HIRHS-BK		4.6	150.0	35.0	225	1-2;4-7;25	156-00017
T50ROSEC22-PA66HS/PA66HIRHS-BK		4.6	200.0	45.0	225	1-2;4-7;25	156-00011

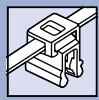
Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 310.

All dimensions in mm. Subject to technical changes.

EdgeClip-Series, 1.0 - 3.0 mm, side fixing

PART DESCRIPTION	Drawing	Width (W)	Length (L)	Bundle Ø max.	N	Article-No.
T50ROSEC5A-PA66HS/PA66HIRHS-BK		4.6	200.0	45.0	225	920-30009
T50ROSEC5B-PA66HS/PA66HIRHS-BK		4.6	200.0	45.0	225	920-30011
T50ROSEC21-PA66HS/PA66HIRHS-BK		4.6	200.0	45.0	225	920-30013

All dimensions in mm. Subject to technical changes.



2-Piece Fixing Ties with EdgeClip

EdgeClip 1-3 mm

Many applications require cables to be run parallel to each other but separated to avoid abrasion. These cable ties and EdgeClip assemblies are ideal for use where holes are not acceptable or where due to temperature problems adhesives will fail.

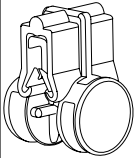
Features and benefits

- For parallel routing of cables, hoses or harnesses
- Easy assembly, just clip on per hand
- For edges of 1-3 mm
- Integrated metal clamp holds clip firmly in place
- Clamp consists of double tempered steel spring
- Ideal for applications where holes or adhesives are not suitable



T50ROSCBT02SET for parallel bundling.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.		Tools	Article-No.
T50ROSCBT02SET-PA66HS/PA66W-BK		1.0	4.6	200.0	45.0	225	1-2;4-7;25	156-00805

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



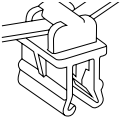
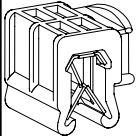
2-piece fixing ties for edges

EdgeClip-Series, unassembled



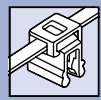
Edge Clip 10 (EC10) fitted onto a plastic panel to hold a Ø 6 mm harness.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Width (W)	Length (L)	Bundle Ø max.		Tools	Article-No.
T18REC10SDSET-PA66HS/PA66HIRHS-BK		2.5	100.0	20.0	80	1-2;4-5;25	156-00962
T30RATSEC37SET-PA66HS/PA66HIRHS-BK		3.6	150.0	32.0	135	-	156-00112

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



2-piece fixing ties for edges

EdgeClip-Series, 3.0 - 6.0 mm, top fixing

These cable ties and EdgeClip assemblies are ideal for use where holes are not acceptable or where due to temperature problems adhesives will fail. These assemblies are widely used for fixing and bundling cables, pipes and hoses within the automotive industry, harness making, panel building and electrical industry.

Features and benefits

- Pre-assembled 2-piece fixing tie with EdgeClip
- Cable tie head can be moved after bundling
- For minimum bundle diameters of 1 mm
- For edges of 3 – 6 mm



Fixing Tie with EdgeClip for thick edges.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T50ROSEC19-PA46-GY		4.6	200.0	45.0	225	1-2;4-7;25	156-02799
T50ROSEC19-PA66HS/PA6HIRHS-BK		4.6	200.0	45.0	225	1-2;4-7;25	156-02819
T50ROSEC20-PA46-GY		4.6	200.0	45.0	225	1-2;4-7;25	156-02748
T50ROSEC20-PA66HS/PA6HIRHS-BK		4.6	200.0	45.0	225	1-2;4-7;25	156-02814

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.

EdgeClip-Series, 3.0 - 6.0 mm, top fixing

PART DESCRIPTION	Drawing	Width (W)	Length (L)	Bundle Ø max.	N	Article-No.
T50SOSEC20-PA66HS/PA66HIRHS-BK		4.6	150.0	35.0	225	920-30042

All dimensions in mm. Subject to technical changes.

EdgeClip series, 3.0 - 6.0 mm, side fixing

PART DESCRIPTION	Drawing	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T50ROSEC23-PA66HS/PA66HIRHS-BK		4.6	200.0	45.0	225	1-2;4-7;25	156-03705

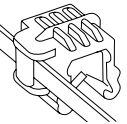
Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



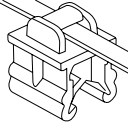
2-piece fixing ties for edges

EdgeClip series, 3.0 - 6.0 mm, side fixing

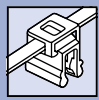
PART DESCRIPTION	Drawing	Width (W)	Length (L)	Bundle Ø max.		Tools	Article-No.
T50ROSEC24-PA66HS/PA66HIRHS-BK		4.6	200.0	45.0	225	1-2;4-7;25	156-00007

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.
All dimensions in mm. Subject to technical changes.

EdgeClip-Series, 6.0 - 8.0 mm, top fixing

PART DESCRIPTION	Drawing	Width (W)	Length (L)	Bundle Ø max.		Article-No.
T50ROSEC6-8-PA66HS/PA66HIRHS-BK		4.6	200.0	45.0	225	156-02700

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 25=EVOcut
All dimensions in mm. Subject to technical changes.



2-piece fixing ties for edges

EdgeClip-Series, twistable

These cable ties and EdgeClip assemblies are ideal for use where holes are not acceptable or where adhesives will fail due to temperature problems. These assemblies are widely used for fixing and bundling cables, pipes and hoses within the automotive industry, harness making, panel building and electrical industry.

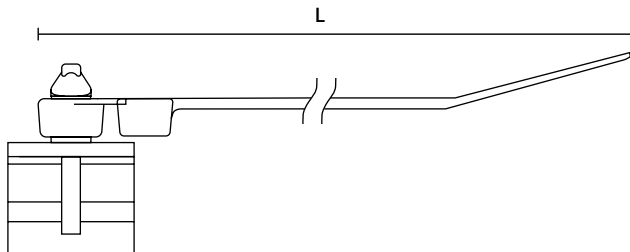
Features and benefits

- Pre-assembled 2-piece fixing tie with EdgeClip
- Easy to assemble by hand
- Cable tie head can be moved after bundling
- For edges of 1 – 2.5 mm or 1 – 3 mm
- Can be rotated to the desired position



EdgeClip CBTO50R, rotatable 90°.

Material specifications: See Article-No. on our website.



CBT30MR

PART DESCRIPTION	Drawing	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
CBTO50R-PA66HS/PA66HIRHS-BK		1.0 - 3.0	4.6	202.0	47.0	225	2;4-5;25	156-01601

Recommended Tools: 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



2-piece fixing ties for edges

for drill holes

Due to the tie's reduced installation height it is ideal for use wherever space is at a premium.

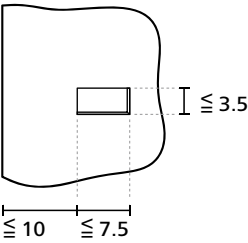
Features and benefits

- Pre-assembled 2-piece fixing tie with EdgeClip
- Easy to assemble by hand
- Cable tie head can be moved after bundling
- For edges of 1.0 - 3.0 mm
- Secure fixing of the EdgeClip into drill hole
- Ideal for use wherever space is at its premium



The holding tab increases the tensile strength additionaly.

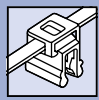
Material specifications: See Article-No. on our website.



Position of the plate cut-out for the holding tab.

PART DESCRIPTION	Drawing	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.		Tools	Article-No.
T50ROSEC2.5A-PA66HS/PA66HIRHS-BK		1.0 - 3.0	4.6	200.0	50.0	225	1-2;4-7;25	156-00676

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.
All dimensions in mm. Subject to technical changes.



Fixing elements for tubes and harnesses, for edges

EdgeClip-Series

EdgeClips are used in the automotive industry and electrical industries and when it is impossible to drill holes or no other fixing points are available.

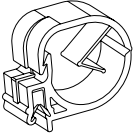
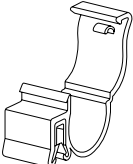
Features and benefits

- Releasable fixing elements with EdgeClip
- Low-vibration routing of bigger bundle diameters
- Clips to be pushed onto an edge
- To be closed single handed, a snap can be felt
- Bundles can be released at any time
- EC27: fixing element enables usage of smaller bundle diameter
- EC41: for parallel guidance of two bundles



EdgeClip cable and tube clips are suitable for the low-vibration routing of cables and tubes with larger bundle diameters.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Panel Thickness	Attach to Ø	Pack Cont.	Article-No.
EC27-PA66HIRHS-BK		1.0 - 3.0	15.0 - 22.0	500 pcs.	151-00161
EC39-PA6HIRHS-BK		1.0 - 3.0	-	250 pcs.	151-03611

All dimensions in mm. Subject to technical changes.



Automatic bundling

EdgeClip-Series for automatic cable tying systems

Clips to fix cables and harnesses in the automotive and white goods industry.

Features and benefits

- Optimized for use automatic cable tying systems
- Easy to apply
- The fixing elements can be tied automatically with Autotool System ATS



Automized clip application.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Panel Thickness	Width (W)	Length (L)	Height (H)	Article-No.
ATSEC38-PA66HIRHS-BK		1.5 - 4.0	16.4	15.0	14.5	102-68380
ATSEC37-PA66HIRHS-BK		1.5 - 4.0	16.4	15.0	14.7	102-68370
ATSEC35-PA66HIRHS-BK		1.5 - 4.0	10.0	15.0	18.9	102-68350
ATSEC36-PA66HIRHS-BK		1.5 - 4.0	10.1	15.0	19.0	102-68360

All dimensions in mm. Subject to technical changes.



2-piece fixing ties

with pipe clip

Mainly used in the automotive industry, offer solutions for bundling two harnesses.

Features and benefits

- For post-installation of additional cables for pre-assembled cable looms
- Variety of twist angles and even different loop directions provide flexibility for cable routing
- For OC1 and 2A additional cable tie dimensions are available
- CBTO-series for cable ties up to 5 mm



Pipe Clip CBTO, twistable 90°.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Width (W)	Length (L)	Bundle Ø max.	Attach to Ø	Tools	Article-No.
T30ROC1A-PA66HS/PA66HIRHS-BK		3.6	150.0	31.0	4.0 - 10.0	1-2;4-5;25	156-00689
T50ROC1A-PA66HS/PA66HIRHS-BK		4.6	202.0	45.0	4.0 - 10.0	1-2;4-7;25	156-00767
T30ROC5J-PA66HSUV-BK		3.5	152.0	30.0	11.0	1-2;4-5;25	156-00520
T50RORC15x15-PA66HS/PA66HIRHS-BK		4.6	200.0	50.0	15.0 x 15.0	1-2;4-5;25	156-01549
T50RLOC5-9-SET-PA66HS/PA66HIRHSUV-BK		12.0	23.7	9.0	-	-	156-01289
T50RLOC10-14-PA66HS/PA66HIRHSUV-BK		12.0	43.7	14.0	10.0 - 14.0	-	156-01093
T50RLOC15-19-SET-PA66HS/PA66HIRHSUV-BK		-	31.6	19.0	-	-	156-01292
T50ROCSG1A-PA66/PA66HIRHS-BK		4.6	202.0	45.0	4.0 - 10.0	1-2;4-5;25	156-01212
T50ROC10-17A-PA66HS/PA66HIRHS-BK		-	200.0	50.0	10.0 - 17.0	1-2;4-5;25	156-02903
T50ROSCTCL14A-PA66HS/PA66HIRHS-BK		4.6	200.0	45.0	18.7	-	156-03353

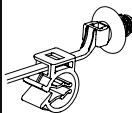
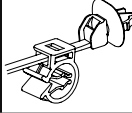
Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



2-piece fixing ties

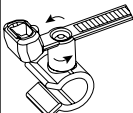
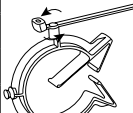
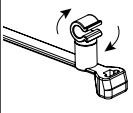
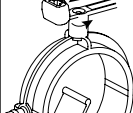
with pipe clip

PART DESCRIPTION	Drawing	Width (W)	Length (L)	Bundle Ø max.	Attach to Ø	Tools	Article-No.
T50SOSFT7EOC1A-PA66HS/PA66HIRHS-BK		-	-	30.0	-	-	156-01273
T60SOSSFT7125-E1OC1A-PA66HS/PA66HIRHS-BK		-	-	30.0	-	-	156-01684

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.

twistable 360°

PART DESCRIPTION	Drawing	Attach to Ø	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T50SVC6.5-PA46-GY		6.5 - 8.0	4.7	155.0	35.0	225	1-2;4-7;25	156-00937
T50SVC6.5-PA66HS/PA66HIRHS-BK		6.5 - 8.0	4.7	155.0	35.0	222	1-2;4-7;25	156-00155
T50SVCOC10-14-PA46-GY		10.0 - 14.0	4.7	155.0	35.0	222	1-2;4-7;25	156-01045
T50SMVCOC10-14-PA46-GY		10.0 - 14.0	4.7	210.0	50.0	222	1-2;4-7;25	156-02610
T50SMVCOC10-14-PA66HS/PA66HIRHS-BK		10.0 - 14.0	4.7	210.0	50.0	222	1-2;4-7;25	156-02003
T50SVCOC15-18-PA66HS/PA66HIRHS-BK		15.0 - 18.0	4.7	155.0	35.0	222	1-2;4-7;25	156-02002
T50SMVCOC15-18-PA66HS/PA66HIRHS-BK		15.0 - 18.0	4.7	210.0	50.0	222	1-2;4-7;25	156-00129
T50SVCOC19-24.5-PA66HS/PA66HIRHS-BK		19.0 - 24.5	4.7	155.0	35.0	222	1-2;4-7;25	156-02005
T50SMVCOC19-24.5-PA46-GY		19.0 - 24.5	4.7	210.0	50.0	222	1-2;4-7;25	156-00577
T50SMVCOC19-24.5-PA66HS/PA66HIRHS-BK		19.0 - 24.5	4.7	210.0	50.0	222	1-2;4-7;25	156-00130
T50SVCOC25-31-PA66HS/PA66HIRHS-BK		25.0 - 31.0	4.7	155.0	35.0	222	1-2;4-7;25	156-01230
T50SMVCOC28-PA66HS/PA66HIRHS-BK		28.0	4.7	210.0	50.0	222	1-2;4-7;25	156-01268
T50SVCOC31-39-PA66HS/PA66HIRHS-BK		31 - 39	4.7	155.0	35.0	222	1-2;4-7;25	156-02000
T50SMVCOC31-39-PA66HS/PA66HIRHS-BK		31.0 - 39.0	4.7	210.0	50.0	222	1-2;4-7;25	156-01321
T50SMVCOC39-45-PA66HS/PA66HIRHS-BK		39.0 - 45.0	4.7	210.0	50.0	222	1-2;4-7;25	156-00131
T50SVC3.5-PA66HS/PA66HIRHS-BK		3.45 - 3.55	4.7	155.0	35.0	222	1-2;4-7;25	156-01350
T50SVCOC19.0-24.5 ST-PA66HS/PA66HIRHS-BK		-	-	-	-	-	-	156-02402

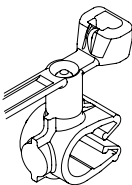
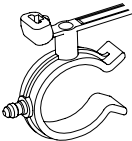
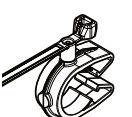
Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



2-piece fixing ties with pipe clip

twistable 360°

PART DESCRIPTION	Drawing	Attach to Ø	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T50SVCMOC9M-PA66HIRHSUV-BK		-	-	17.2	10.0	225	-	156-02243
T50SVCOC9-11A-PA66HS/PA66HIRHS-BK		9 - 11	4.7	155.0	35.0	222	1-2;4-7;25	156-01419
T50SMVCMOC19M-PA66HIRHSUV-BK		-	-	32.7	21.8	225	-	156-04243

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 7=EVO9i, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.

2-piece fixing ties with automatic harness clip, connectable and twistable 360°

IAHC-Series

Offering a simple and secure method of attaching cables together. Originally designed for the automotive industry, these products are used in a wide range of applications.

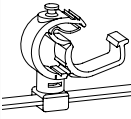
Features and benefits

- Push and click closure
- 360 degrees rotatable
- Coupling elements of the IAHC variants allow parts to interconnect



T120R cable tie assembled with an IAHC.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Attach to Ø	Width (W)	Length (L)	Bundle Ø max.	N	Tools	Article-No.
T120RIAHC3TCR-PA66HIRHS-BK		19.0 - 28.0	7.6	390.0	108.0	530	1;3;6-7;9-10;25	156-03382

Recommended Tools: 1=MK10-SB, 3=MK21, 7=EVO9i, 9=EVO9iHT, 10=MK9P, 25=EVOcut. For more information on toolings please refer to the Application Tooling chapter on page 308.

All dimensions in mm. Subject to technical changes.



Fixing elements for tubes and harnesses with automatic locking feature

with arrowhead, for round holes

Offering a simple and secure method of attaching cables to panels. Originally designed for the automotive industry, these products are used in a wide range of applications with sheet metal panels across various industries.

Features and benefits

- Push and click closure for fixing of wires
- Clip is clicked into a specific hole
- AHC()SS und AHC()SB can be pushed onto a 5.0 mm stud

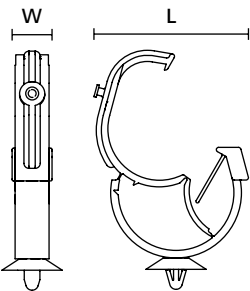
Material specifications: See Article-No. on our website.



Automatic Harness Clip closed.



Automatic Harness Clip open.



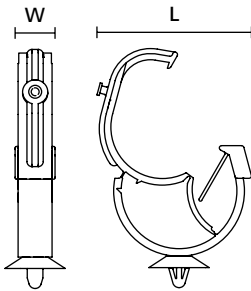
AHC-Series

PART DESCRIPTION	Drawing	Panel Thickness	Disc Ø	Width (W)	Bundle Ø max.	Length (L)	Pack Cont.	Article-No.
IAHC3AH-PA66HIRHS-BK		0.5 - 2.7	24.0	13.5	28.0	40.0	500 pcs.	151-00378
AHC4AH-PA66HIRHS-BK		0.8 - 2.7	24.0	15.9	41.5	60.5	400 pcs.	151-00374

All dimensions in mm. Subject to technical changes.



with fir tree for round holes



AHC-Series

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Bundle Ø max.	Disc Ø	Width (W)	Length (L)	Pack Cont.	Article-No.
AHC25FT6LG-PA66HIRHS-BK		6.4 - 7.0	0.7 - 4.0	22.0	20.0	10.0	34.5	3000 pcs.	151-02746
AHC223FT6LG-PA66HIRHS-BK		6.4 - 7.0	0.7 - 4.0	23.0	20.0	10.0	35.0	300 pcs.	151-03450
AHC336FT6LG-PA66HIRHS-BK		6.4 - 7.0	0.7 - 4.0	37.5	22.0	14.0	50.0	700 pcs.	151-01376

All dimensions in mm. Subject to technical changes.



Fixing elements for tubes and harnesses with automatic locking feature, connectable

IAHC-Series, connectable

Offering a simple and secure method of attaching cables to panels. Originally designed for the automotive industry, these products are used in a wide range of applications with sheet metal panels across various industries.

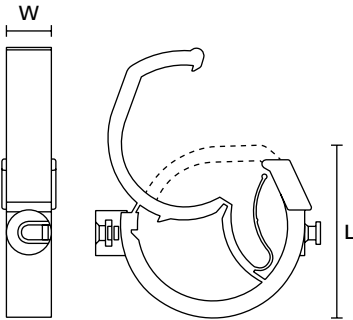
Features and benefits

- Push and click closure
- Coupling elements of the IAHC variants allow parts to connect
- IAHC()T can only be connected with another IAHC element
- Vibration resistant, rattlefree and secure hold of bundle
- In case of maintenance easy replacement of bundle possible
- 360 degree rotatable for guiding bundles in different directions



IAHC()AH in combination with an IAHC()T.

Material specifications: See Article-No. on our website.



IAHC()T

PART DESCRIPTION	Drawing	Bundle Ø max.	Pack Cont.	Article-No.
IAHC3TIAHC3T-PA66HIRHS-BK		28.0	700 pcs.	156-03385

All dimensions in mm. Subject to technical changes.



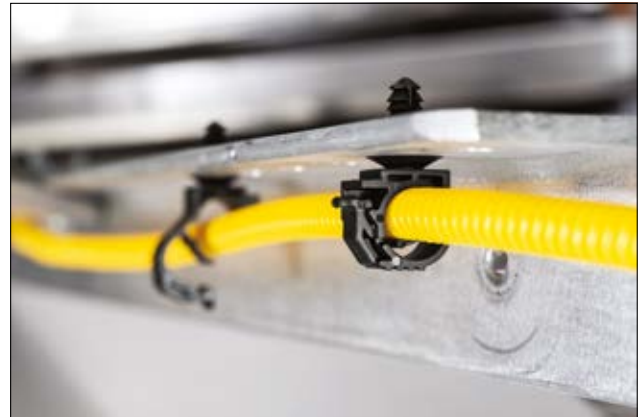
Fixing elements for tubes and pipes

with fir tree for round holes and cover, LOC-Series

These clips offer fast and easy bundling of convoluted tubes and pipes, especially for the automotive industry.

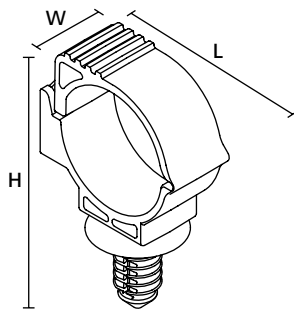
Features and benefits

- For fixing and bundling convoluted tubes and pipes
- Vibration resistant, rattle-free and secure hold of bundle
- In case of maintenance easy replacement of bundle possible



The locking clamps of the LOC-Series offer fast and easy bundling of convoluted tubes and pipes.

Material specifications: See Article-No. on our website.



Reference drawing for dimensions only

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Bundle Ø max.	Width (W)	Length (L)	Height (H)	Pack Cont.	Article-No.
LOC10-14FT6LG-PA66HIRHSUV-BK		6.1 - 6.6 (hexagonal) 6.1 - 7.0	0.6 - 8.25	14.0	12.0	34.9	57.8	2000 pcs.	151-01166
LOC15-19FT6LG-PA66HIRHSUV-BK		6.1 - 6.6 (hexagonal) 6.1 - 7.0	0.6 - 8.25	19.0	12.0	31.6	47.5	2000 pcs.	151-01022

All dimensions in mm. Subject to technical changes.



Fixing elements for tubes and pipes

with fir tree for oval holes and cover, LOC-Series

These clips offer fast and easy bundling of convoluted tubes and pipes, especially for the automotive industry.

Features and benefits

- For fixing and bundling convoluted tubes and pipes
- Vibration resistant, rattle-free and secure hold of bundle
- In case of maintenance easy replacement of bundle possible



Open Pipe Clip LOC15-19FTOVAL.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Bundle Ø max.	Width (W)	Length (L)	Height (H)	Pack Cont.	Article-No.
LOC40-45FTOval-PA66HIRHS-BK		-	-	-	-	-	-	400 pcs.	151-02803
LOC15-19FTOVAL-PA66HIRHSUV-BK		6.2 x 12.2 6.5 x 12.5 6.5 x 13.0 7.0 x 12.0	0.6 - 6.75	19.0	12.0	31.6	49.5	1000 pcs.	151-01049
LOC5-9FTOVAL-PA66HIRHSUV-BK		6.2 x 12.2 6.5 x 12.5 6.5 x 13.0 7.0 x 12.0	0.6 - 6.75	9.0	12.0	25.5	34.2	1700 pcs.	151-01306

All dimensions in mm. Subject to technical changes.



Fixing elements for tubes and hanneses

with fir tree

This Fixing Element is pressed into a hole by hand and locked into place with a hearable click. Cable bundles can be applicated afterwards.

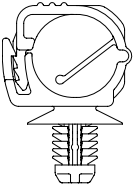
Features and benefits

- Easy to install without the need for a tool
- Types with disc cover the hole and protect against dirt and dust ingress
- Rattlefree and secure hold of bundles due to retaining collar
- Suitable for post-installation of bundles
- Easy replacement of bundles in case of maintenance



The HC48FT6 is designed for Bundle diameter 4.3 - 5.2 mm.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Attach to Ø	Pack Cont.	Article-No.
HC512FT7J-PA66HSUV-BK		7.0	4.5 - 4.5	12.0	100 pcs.	151-00852

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Fixing elements for corrugated tubing, with arrowhead

for round and oval holes

These clamps are used in the automotive industry, in the production of cable harnesses and in the electrical industry. Their quick and easy mounting is the reason for their universal success wherever corrugated tubing and pipes have to be fixed quickly and securely.

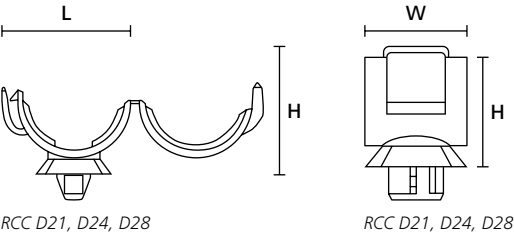
Features and benefits

- Clamps for corrugated tubing for a variety of nominal diameters
- Arrowhead simply locks into place
- Tube is guided accurately by clicking
- Axial slipping is prevented by the inside profile of the clamp



Simple and secure installation of pipes or hoses to panels.

Material specifications: See Article-No. on our website.



PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Height (H)	Nominal Ø	Pack Cont.	Article-No.
TCTC16SFT10x10-PA6-OG		10.0 x 10.0 (square)	1.0 - 1.8	15.0	68.3	33.6	16.0	100 pcs.	151-03182

All dimensions in mm. Subject to technical changes.



Fixing elements for corrugated tubing, with fir tree

for round and oval holes

These clamps are used for example in the automotive industry, harness making, electrical industry and wherever corrugated tubing has to be quickly and firmly fixed.

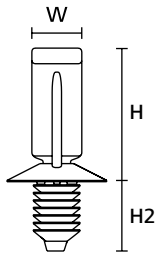
Features and benefits

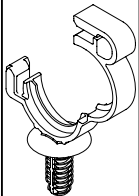
- Clamps for a variety of nominal diameters
- Fir tree foot part can be used for a variety of panel thicknesses
- Suitable for use within threaded holes
- Tube is guided accurately by clicking
- Axial slipping is prevented by the inside profile of the clamp



CNCTC8FT6.5LG Clamps.

Material specifications: See Article-No. on our website.



PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Nominal Ø	Width (W)	Height (H)	Height (H2)	Pack Cont.	Article-No.
CTCL8.5FT6LG-PA66HIRHS-BK		6.3 - 6.7	0.75 - 3.0	8.5	10.0	28.4	9.4	1000 pcs.	151-02469

All dimensions in mm. Subject to technical changes.



Fixing elements for tubes and harnesses

rotatable

Rotatable dual routing clips keep two routings secured and separated. A swivel coupler allows them to rotate independently of each other.

Features and benefits

- Patented retention design features inverted retaining legs, narrow opening and circular retainer to prevent inadvertent disengagement.
- Controlled flex and angled entry promote easy installation.
- Independent rotation allows for adjustable routing orientation.



A rotatable dual routing clip that keeps two routings secured and separated.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Length (L)	Height (H)	Pack Cont.	Article-No.
MOC26FMOC26M-PA66HIRHSUV-BK		73.4	41.0	1000 pcs.	156-02369
MOC8FMOC19M-PA66HIRHSUV-BK		45.6	32.8	2000	156-02321

All dimensions in mm. Subject to technical changes.

Fixing elements for tubes and harnesses

rotatable

The MOC to LOC is a rotatable dual routing clip and clamp combination that keeps two routings secured and separated. A swivel coupler allows them to rotate independently of each other.

Features and benefits

- Patented retention design of clip features inverted retaining legs, narrow opening and circular retainer to prevent inadvertent disengagement.
- Clip and clamp both offer easy bundle installation.
- Independent rotation allows for adjustable routing orientation.
- Locking clamp dynamically fits a range of bundle sizes.



Independent rotation allows for adjustable routing orientation.

PART DESCRIPTION	Drawing	Length (L)	Height (H)	Pack Cont.	Article-No.
MOC10FLOC5-9-PA66HIRHSUV-BK		41.3	23.6	2000	156-01837

All dimensions in mm. Subject to technical changes.



Fixing elements for tubes and harnesses

multiparallel routing, fir tree, round hole

Designed for the fast and easy parallel routing of two tubes or pipes. Both can be installed by hand. The fixing element inside assures a firm grip even with smaller diameters.

Features and benefits

- For parallel routing of tubes and pipes
- Easy to install
- Post installation of tubes and pipes possible
- Defined offset between the bundles



Material specifications: See Article-No. on our website.

PART DESCRIPTION	Hole Ø (FH)	Panel Thickness	Bundle Ø max.	Width (W)	Length (L)	Height (H)	Pack Cont.	Article-No.
DUALFT6DOCK-PA66HIRHSUV-BK	6.5	0.6 - 6.0	15.5	16.7	51.8	34.6	2000 pcs.	151-01310

All dimensions in mm. Subject to technical changes.

Fixing elements for tubes and harnesses

multiparallel routing, fir tree, oval hole

The clips are used to guide HV cables, harnesses and tubes. The products are designed to offer high stability within the application. The ratchet closure makes it possible to guide different cable diameters in parallel.

Features and benefits

- 2-way clip for bundling and securing cables, for oval holes
- For parallel / multiple routing
- can be used without cable ties due to clip function
- Ratchet function allows for different cable diameters
- Clip can be opened for maintenance purposes without damaging the clip



Fixing element for parallel routing of two harnesses or tubes (12.2 - 18.0mm).

PART DESCRIPTION	Hole Ø (FH)	Panel Thickness	Bundle Ø min.	Bundle Ø max.	Width (W)	Length (L)	Height (H)	Pack Cont.	Article-No.
DHC12.2-18.2FTOVAL-PA66HIRHS-BK	6.2 x 12.2 6.5 x 12.5 6.5 x 12.2	0.6 - 5.0	12.2	18.2	20.0	93.0	46.0	250 pcs.	151-02965

All dimensions in mm. Subject to technical changes.



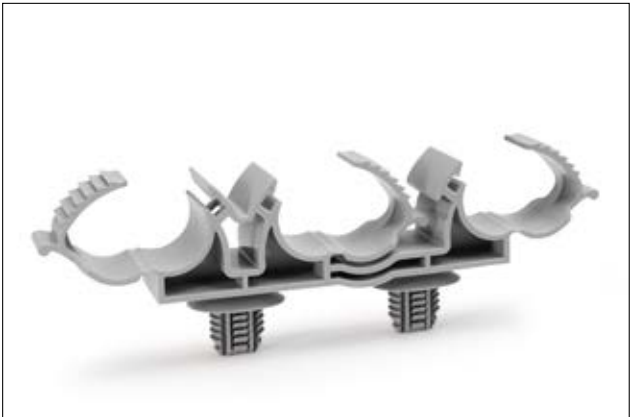
Fixing elements for tubes and harnesses

multiparallel routing, fir tree, oval hole

The clips are used to guide HV cables, harnesses and tubes. The products are designed to offer high stability within the application. The ratchet closure makes it possible to guide different cable diameters in parallel.

Features and benefits

- 3-way clip for bundling and securing cables, for oval holes
- For parallel / multiple routing
- can be used without cable ties due to clip function
- Ratchet function allows for different cable diameters
- Clip can be opened for maintenance purposes without damaging the clip



Fixing element for parallel routing of three harnesses or tubes (12.2 - 18.2 mm).

PART DESCRIPTION	Hole Ø (FH)	Panel Thickness	Bundle Ø min.	Bundle Ø max.	Width (W)	Length (L)	Height (H)	Pack Cont.	Article-No.
THC12.2-18.2FTOVAL-PA66HIRHS-BK	6.2 x 12.2 6.5 x 12.5 6.5 x 12.2	0.6 - 5.0	12.2	18.2	20.0	139.0	46.0	200	151-02967

All dimensions in mm. Subject to technical changes.

Fixing elements for convoluted tubes

multiparallel routing, fir tree, oval hole

These clips offer fast and easy bundling of convoluted tubes and pipes, especially for the automotive industry.

Features and benefits

- For fixing and bundling convoluted tubes and pipes
- Suitable for nearly every application

Material specifications: See Article-No. on our website.



PART DESCRIPTION	Hole Ø (FH)	Panel Thickness	Bundle Ø max.	Width (W)	Length (L)	Height (H)	Pack Cont.	Article-No.
PC3OVAL-PA66HIRHS-BK	6.2 x 12.2 6.5 x 12.5 6.5 x 13.0 7.0 x 12.0	0.6 - 6.5	22.0	17.6	91.5	69.6	1000 pcs.	151-02123

All dimensions in mm. Subject to technical changes.



Fixing elements for tubes and harnesses

for multiparallel routing

These clips are designed for the installation of high voltage cables in the automotive sector or electric vehicles in general, but can be used for any application requiring parallel wiring.

The sturdy clip fixes and guides cables and corrugated conduits in a stable and optimal way, keeping the wiring parallel even in the presence of strong vibrations. The HV-Clips are available as CLP, CMP and CHP parts. The "L" stands for lower performance (EPDM), the "M" for medium performance (heat resistant + AEM) and the "H" for high performance (PA46 + AEM). The HV clips can also be produced with other material combinations or are already available.



Double and triple high voltage clips.

Features and benefits

- Easy installation thanks to the special closure
- PA6HS for temperatures up to 90°C,
- PA46 for temperature up to 150°C
- For fixing on 5.0 mm studs with anti-rotation pin
- For 2 or 3 cables for parallel routing
- The Twist-Lock closing system (20.0 - 24.0 mm) acts with the same force on both compartments
- It increases the reopening force by decreasing the closing force significantly
- Soft AEM inserts protect the wiring from crushing, abrasion and chemicals
- Rotatable fastener = 20.0 -24.0 mm bundle diameter
- Hinge lock = 14.0 -17.0 mm bundle diameter
- NR = no rubber



Double clip in PA6HS with anti-rotation pin recommended for corrugated tubing.

Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Hole Ø (FH)	Stud Ø	Bundle Ø min.	Bundle Ø max.	Width (W)	Length (L)	Height (H)	Pack Cont.	Article-No.
CHP2W20-24NA-PA46-OG		-	-	20.0	24.0	-	-	-	150 pcs.	151-03414
CMP2W20-24NA-PA6HS-BK		-	-	-	-	-	-	-	100 pcs.	151-03465
CLP2W19.5NR-PA6HS-BK		-	5.0, M5	19.5	19.5	20.4	75.1	31.7	100 pcs.	151-03629
CHP2W19.5NR-PA46-OG		-	5.0, M5	19.5	19.5	20.4	75.1	31.7	250 pcs.	151-03666
CHP2W14-17-PA46/AEM-OG		-	M5	14.0	17.0	20.0	75.1	31.7	250 pcs.	151-03331
CMP2W14-17-PA6HS/AEM-BK		-	M5	14.0	17.0	20.4	75.1	31.7	250 pcs.	151-03463
CLP2W14-17-PA66HS/EPDM-BK		-	M5	14.0	17.0	-	-	-	250 pcs.	151-03352
CHP3W14-17-PA46/AEM-OG		6.3 - 6.7	M5	14.0	17.0	20.5	108.9	33.9	125 pcs.	151-03353

All dimensions in mm. Subject to technical changes.



Fixing elements for tubes and harnesses

for multiparallel routing

Features and benefits

- TPE layer protects cables and prevents rotation and axial slide, for a positive hold without crushing bundles.
- Clamps are stackable to minimize space.
- Anti-rotation feature prevents clamps from rotating while bolting down.
- Releasable latch allows access to routings for serviceability.



Material specifications: See Article-No. on our website.

PART DESCRIPTION	Drawing	Hole Ø (FH)	Stud Ø	Bundle Ø min.	Bundle Ø max.	Width (W)	Length (L)	Height (H)	Pack Cont.	Article-No.
HDC19x2-PA66GF15/TPE-BK		M8	-	18.5	19.5	26.0	82.3	36.0	400 pcs.	151-03790
HDC17x2-PA66GF15/TPE-BK		M8	M8	16.5	17.5	26.0	82.3	36.0	400 pcs.	151-03789
HDC17x3-PA66GF15/TPE-BK		M8	-	16.5	17.5	26.0	126.3	36.0	350 pcs.	151-03791
HDC19x3-PA66GF15/TPE-BK		M8	-	18.5	19.5	26.0	126.3	36.0	350 pcs.	151-03792

All dimensions in mm. Subject to technical changes.

Fixing elements for tubes and harnesses

multi parallel routing

Features and benefits

- Separates and secures bundles avoiding abrasion.
- Designed to handle both convoluted tubing and bundles not covered in convoluted tubing.
- Available in a variety of sizes and colors to be easily identified.



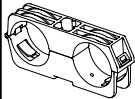
Each mount has two pawls for easy pre-installation on a threaded fastener prior to securing with a mechanical fastener.

PART DESCRIPTION	Drawing	Width (W)	Length (L)	Height (H)	Bundle Ø max.	Hole Ø (FH)	Article-No.
HC3A-PA66HIRGF13-BK		27.9	107.9	34.9	24.3	8.12	133-00998

All dimensions in mm. Subject to technical changes.



Locking clamp with M8 stud mount, multi parallel routing

PART DESCRIPTION	Drawing	Pack Cont.	Article-No.
DLC26M8-PA66HIRHSUV-BK		1000 pcs.	151-03590

All dimensions in mm. Subject to technical changes.



Fixing elements for tubes and harnesses

multiparallel routing, weld studs

Offering a simple and secure method of attaching pipes or hoses to panels. Originally designed for the automotive industry they are finding a wide variety of applications in all industries using sheet metal panels with studs or weld studs. The use of weld studs avoid the problems with 'holes' (ingress of moisture, corrosion etc.).

Features and benefits

- Multi-option dual-clamp stud mount secures two bundles running alongside a bolt or stud.
- The 360-degree locking enclosure and cable tie dynamically fit a range of bundle sizes.
- Clamp can be opened for bundle maintenance.
- Independent rotation allows for adjustable routing orientation.
- High-performance stud mount design allows for easy installation and delivers outstanding stud retention to keep bundles secure.



Material specifications: See Article-No. on our website.

PART DESCRIPTION	Bundle Ø max.	Hole Ø (FH)	Stud Ø	Height (H)	Length (L)	Pack Cont.	Article-No.
SMF2LOC10-14X2-PA66HIRHSUV-BK	15.0	5.0 6.0	5.0, 6.0	34.9	107.3	1000 pcs.	156-02843

All dimensions in mm. Subject to technical changes.



Snapper hose clips for tubes and harnesses

SNP-Series

Our SNP range can be used as an alternative to metal hose clamps. Snapper can be used in markets as diverse as automotive, agriculture, white goods, venting systems, pumps and hydraulic systems to medical engineering.

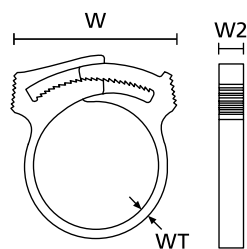
Features and benefits

- Releasable and reusable plastic hose clamps
- Self-locking
- Releasable by giving a lateral movement to the 'head'
- Installation by hand possible
- Installation with processing tool for a secure tensioning
- For higher operating temperatures: Glass Filled PA66

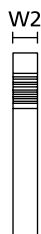


SNP - Snapper Hose Clips range.

Material specifications: See Article-No. on our website.



SNP - Snapper Hose Clip (front view)



SNP Clip (side view)

PART DESCRIPTION	Bundle Ø min.	Bundle Ø max.	Width (W) min.	Width (W) max.	Width (W2)	Wall (WT)	Article-No.
SNP8(E)-POM-NA	13.7	15.3	19.00	24.00	6.0	1.80	191-10089
SNP10-POM-WH	14.5	16.6	16.81	25.63	6.0	1.70	190-00046
SNP16-POM-WH	19.1	21.7	19.48	30.12	5.8	1.70	190-00079

All dimensions in mm. Subject to technical changes.