# HellermannTyton

## Cable Management in the Workplace - Factory and Warehouse

As businesses prepare for the return to work of their employees it is important that the working environment is **safe** and meets the government's guidelines for **social distancing**. This may require **desks to be moved, equipment to be moved and machinery in factories to be moved.** With this in mind it is important to choose your cable management solutions carefully and collaborate with an **experienced partner** who understands your needs in terms of **safety, efficiency and quality.**

HellermannTyton products enable you to efficiently fix, protect, route, insulate and identify your cables whether in an office, factory or warehouse.

All products are manufactured from high quality materials that meet the toughest industry standards. Our quality system is a real tool for managing our business and HellermannTyton is proud to be certified to ISO 9001 and ISO 14001.

# HellermannTyton

## HellermannTyton
## an experienced partner by your side

### Made in the United Kingdom

HellermannTyton has over 80 years of experience manufacturing injection moulded and extruded parts in our UK factories. It is our mission to develop effective solutions for all cable management requirements. In order to live up to this goal, we get to grips with everything (and we mean everything!) that goes on in the world of our customers, and they are our main inspiration when we develop our product ranges. We operate **16 world-class manufacturing facilities** and develop products at **13 locations**. In the **UK we operate from 2 manufacturing facilities and 1 distribution centre** which enables us to offer a world class portfolio to our **local markets**. We employ more than **5,400 employees** at HellermannTyton in **39 countries** and offer you first-class service and advice – wherever you need it.

Our global brand is trusted by industry professionals around the world. The quality of HellermannTyton products is inspired by your cable management needs.

**The creation of innovative and personalised solutions for our customers is part of our DNA**

We are a team who thrive on creativity and complex **problem solving**; working in partnership with our flexible collaborative approach allows us to **add value to your business**.

Our in-house 3D printing capability enables us to rapidly bring concepts to life in materials that simulate the end product properties, realising the form and function of our ideas. Our prototype tooling service enables us to verify the design integrity by producing parts in the specified material grade at the earliest possible stage in the development process. Due to the intricacy of our products we conduct a variety of FEA analysis to optimise the design for manufacture; reducing both weight and waste in the process.

**Our shared goal: Success through knowledge**

The HellermannTyton ACADEMY ensures a global exchange of information in all areas and at all levels. Everyone is cordially invited to share their own knowledge. Together we will become more successful. Special developed training sessions – tailor-made to your specific needs – offer you the possibility to find out about our products and new developments as well as the application in different markets and industries.

As our customer, you are also a part of the ACADEMY. Only through you the ACADEMY will grow, while also making a valuable contribution towards the successful improvement of your business! You are more than welcome to be a part of this team!

Our goal is to make HellermannTyton your first choice for cable management solutions. A well-founded exchange of experiences forms an outstanding basis for competent knowledge and professional actions in all markets, product and corporate areas. Increased knowledge makes your work easier and shortens processes, which in turn makes it possible to guarantee success over the long term while shaping our future together.

# HellermannTyton

## Factory and Warehouse

The challenge to ensure social distancing in a factory or warehouse environment is one that will be daunting for any business. HellermannTyton can assist with high quality, cost effective and time saving solutions that will help to make this challenge easier to implement.

## 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

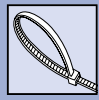Heat stabilised T-Series cable ties up to +105 °C.

*T-Series*

| TYPE | Width (W) | Length (L) | Bundle Ø max. | N | Material | Colour | Pack Cont. | Tools | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| T18R | 2.5 | 100.0 | 22.0 | 80 | PA66HS | Black (BK) | 100 pcs. | 2;4-6 | 111-01950 |
| | 2.5 | 100.0 | 22.0 | 80 | PA66HS | Natural (NA) | 100 pcs. | 2;4-6 | 111-01959 |
| T18I | 2.5 | 145.0 | 35.0 | 80 | PA66HS | Black (BK) | 100 pcs. | 2;4-6 | 111-02358 |
| | 2.5 | 145.0 | 35.0 | 80 | PA66HS | Natural (NA) | 1,000 pcs. | 2;4-6 | 111-02359 |
| T18L | 2.5 | 205.0 | 55.0 | 80 | PA66HS | Black (BK) | 100 pcs. | 2;4-6 | 111-02049 |
| | 2.5 | 205.0 | 55.0 | 80 | PA66HS | Natural (NA) | 100 pcs. | 2;4-6 | 111-02159 |
| T30R | 3.5 | 150.0 | 35.0 | 135 | PA66HS | Natural (NA) | 100 pcs. | 2;4-6 | 111-03259 |
| | 3.5 | 150.0 | 35.0 | 135 | PA66HS | Black (BK) | 100 pcs. | 2;4-6 | 111-03050 |
| T30L | 3.5 | 198.0 | 50.0 | 135 | PA66HS | Black (BK) | 100 pcs. | 2;4-6 | 111-03450 |
| | 3.5 | 198.0 | 50.0 | 135 | PA66HS | Natural (NA) | 100 pcs. | 2;4-6 | 111-03459 |
| T30LL | 3.5 | 290.0 | 80.0 | 135 | PA66HS | Black (BK) | 1,000 pcs. | 2;4-6 | 111-03660 |
| | 3.5 | 290.0 | 80.0 | 135 | PA66HS | Natural (NA) | 100 pcs. | 2;4-6 | 111-03569 |
| T40R | 4.0 | 175.0 | 40.0 | 180 | PA66HS | Black (BK) | 100 pcs. | 2;4-8 | 111-01623 |
| | 4.0 | 175.0 | 40.0 | 180 | PA66HS | Natural (NA) | 100 pcs. | 2;4-8 | 111-01627 |
| T50S | 4.6 | 150.0 | 35.0 | 225 | PA66HS | Natural (NA) | 100 pcs. | 2-10 | 111-05859 |
| | 4.6 | 150.0 | 35.0 | 225 | PA66HS | Black (BK) | 100 pcs. | 2-10 | 111-05850 |
| T50R | 4.6 | 200.0 | 50.0 | 225 | PA66HS | Black (BK) | 100 pcs. | 2-10 | 111-04950 |
| T50I | 4.6 | 300.0 | 85.0 | 225 | PA66HS | Black (BK) | 100 pcs. | 2-10 | 111-05250 |
| | 4.6 | 300.0 | 85.0 | 225 | PA66HS | Natural (NA) | 100 pcs. | 2-10 | 111-05259 |
| T50L | 4.6 | 390.0 | 110.0 | 225 | PA66HS | Natural (NA) | 100 pcs. | 2-10 | 111-05436 |
| | 4.6 | 390.0 | 110.0 | 225 | PA66HS | Black (BK) | 100 pcs. | 2-10 | 111-05450 |
| T80R | 4.7 | 210.0 | 55.0 | 355 | PA66HS | Black (BK) | 1,000 pcs. | 2-12 | 117-08070 |
| | 4.7 | 210.0 | 55.0 | 355 | PA66HS | Natural (NA) | 100 pcs. | 2-12 | 111-05059 |
| T80I | 4.7 | 300.0 | 85.0 | 355 | PA66HS | Black (BK) | 100 pcs. | 2-12 | 111-08250 |
| | 4.7 | 300.0 | 85.0 | 355 | PA66HS | Natural (NA) | 100 pcs. | 2-12 | 111-08259 |

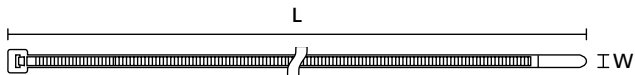All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

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## Cable Ties Polyamide 6.6 standard

**T-Series in PA66 coloured**



*T-Series*

| TYPE | Width (W) | Length (L) | Bundle Ø max. | N | Material | Colour | Pack Cont. | Tools | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| **T80R** | 4.7 | 210.0 | 55.0 | 355 | PA66 | Blue (BU) | 100 pcs. | 2-12 | 116-08016 |
| | 4.7 | 210.0 | 55.0 | 355 | PA66 | Green (GN) | 100 pcs. | 2-12 | 116-08015 |
| | 4.7 | 210.0 | 55.0 | 355 | PA66 | Red (RD) | 100 pcs. | 2-12 | 116-08012 |
| | 4.7 | 210.0 | 55.0 | 355 | PA66 | Yellow (YE) | 100 pcs. | 2-12 | 116-08014 |
| **T80L** | 4.7 | 390.0 | 110.0 | 355 | PA66 | Blue (BU) | 100 pcs. | 2-12 | 116-05416 |
| | 4.7 | 390.0 | 110.0 | 355 | PA66 | Green (GN) | 100 pcs. | 2-12 | 116-05415 |
| | 4.7 | 390.0 | 110.0 | 355 | PA66 | Red (RD) | 100 pcs. | 2-12 | 116-05412 |
| | 4.7 | 390.0 | 110.0 | 355 | PA66 | Yellow (YE) | 100 pcs. | 2-12 | 116-05414 |
| **T150R(H)** | 7.6 | 365.0 | 100.0 | 670 | PA66 | Blue (BU) | 100 pcs. | 3;9-12 | 116-15016 |
| | 7.6 | 365.0 | 100.0 | 670 | PA66 | Red (RD) | 100 pcs. | 3;9-12 | 116-15012 |
| | 7.6 | 365.0 | 100.0 | 670 | PA66 | Yellow (YE) | 100 pcs. | 3;9-12 | 116-15014 |
| **T120R(E)** | 7.6 | 387.0 | 100.0 | 535 | PA66 | Green (GN) | 100 pcs. | 3;9-12 | 111-12001 |
| | 7.6 | 387.0 | 100.0 | 535 | PA66 | Red (RD) | 100 pcs. | 3;9-12 | 111-12002 |

All dimensions in mm. Subject to technical changes.
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| **Recommended Tools** | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P |
| 📄 | 545 | 545 | 546 | 546 | 548 | 549 | 550 | 551 | 549 | 549 | 552 |

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## Cable Ties with smart design

### X-Series

The X-series range of cable ties provides a new and improved design compared with standard cable ties, delivering a range of benefits and enhanced performance. With a new streamlined design and smaller head, the X-Series cable ties provide a superior fixing solution for tight applications, whilst also benefiting from a better grip around the bundle. This professional cable tie range is available in weather resistant and high impact / heat stabilised materials, ensuring these fixings consistently perform well at both high temperatures and in cold environments.

### Features and benefits

• Inside serrated cable tie
• High tensile strength around cable bundles
• Smooth, rounded head design
• Space saving solution
• Improved ergonomic design
• Provides a secure fastening with no lateral movement
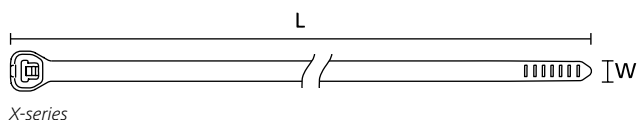
*X-series provides a superior fixing solution for tight applications.*

*X-series*
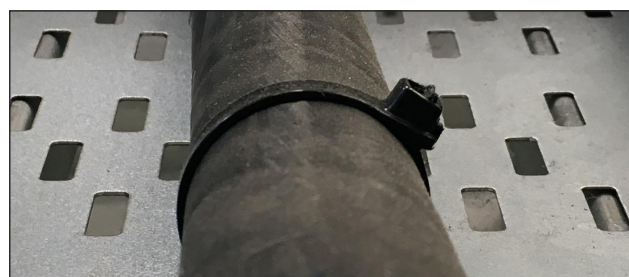
| TYPE | Width (W) | Length (L) | Bundle Ø max. | N | Material | Colour | Pack Cont. | Tools | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| **X20R** | 2.5 | 100.0 | 20.0 | 90 | PA66HIRHS | Black (BK) | 100 pcs. | 2;4-6 | 108-00066 |
| | 2.5 | 100.0 | 20.0 | 90 | PA66W | Black (BK) | 100 pcs. | 2;4-6 | 108-00072 |
| **X80S** | 4.7 | 150.0 | 35.0 | 355 | PA66HIRHS | Black (BK) | 100 pcs. | 2-12 | 108-00001 |
| | 4.7 | 150.0 | 35.0 | 355 | PA66W | Black (BK) | 100 pcs. | 2-12 | 108-00003 |
| **X80R** | 4.7 | 200.0 | 50.0 | 355 | PA66HIRHS | Black (BK) | 100 pcs. | 2-12 | 108-00004 |
| | 4.7 | 200.0 | 50.0 | 355 | PA66W | Black (BK) | 100 pcs. | 2-12 | 108-00010 |
| **X80I** | 4.7 | 300.0 | 84.0 | 355 | PA66HIRHS | Black (BK) | 100 pcs. | 2-12 | 108-00018 |
| | 4.7 | 300.0 | 84.0 | 355 | PA66W | Black (BK) | 100 pcs. | 2-12 | 108-00024 |
| **X80L** | 4.7 | 385.0 | 110.0 | 355 | PA66HIRHS | Black (BK) | 100 pcs. | 2-12 | 108-00028 |
| | 4.7 | 385.0 | 110.0 | 355 | PA66W | Black (BK) | 100 pcs. | 2-12 | 108-00034 |
| **X120R** | 7.7 | 369.0 | 100.0 | 535 | PA66HIRHS | Black (BK) | 100 pcs. | 3;9-12 | 108-00040 |
| | 7.7 | 369.0 | 100.0 | 535 | PA66W | Black (BK) | 100 pcs. | 3;9-12 | 108-00042 |
| **X250R** | 13.0 | 535.0 | 150.0 | 1,115 | PA66HIRHS | Black (BK) | 50 pcs. | 11-12 | 108-00050 |
| | 13.0 | 535.0 | 150.0 | 1,115 | PA66W | Black (BK) | 50 pcs. | 11-12 | 108-00052 |
| **X250I** | 13.0 | 715.0 | 205.0 | 1,115 | PA66HIRHS | Black (BK) | 50 pcs. | 11-12 | 108-00045 |
| | 13.0 | 715.0 | 205.0 | 1,115 | PA66W | Black (BK) | 50 pcs. | 11-12 | 108-00047 |

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

### Recommended Tools

| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P |
| | 545 | 545 | 546 | 546 | 548 | 549 | 550 | 551 | 549 | 549 | 552 |

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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.
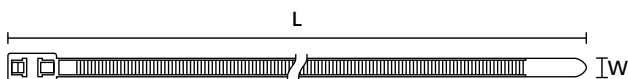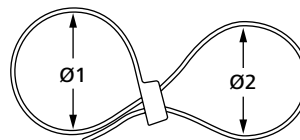
DH-Series

DH-Series maximum combined bundle diameter

| TYPE | Width (W) | Length (L) | Bundle Ø max. | 🏷 N | Min. Tensile Strength 2nd loop | Material | Colour | Pack Cont. | Tools | Article-No. |
|---|---|---|---|---|---|---|---|---|---|---|
| **T50RDH** | 4.7 | 210.0 | 38.0 | 225 | 180 N | PA46 | Grey (GY) | 100 pcs. | 2;4-6;8 | 117-05168 |
| | 4.7 | 210.0 | 38.0 | 225 | 180 N | PA66 | Black (BK) | 100 pcs. | 2;4-6;8 | 117-05000 |
| | 4.7 | 210.0 | 38.0 | 225 | 180 N | PA66 | Natural (NA) | 100 pcs. | 2;4-6;8 | 117-05002 |
| | 4.7 | 210.0 | 38.0 | 225 | 180 N | PA66HS | Black (BK) | 100 pcs. | 2;4-6;8 | 117-05050 |
| | 4.7 | 210.0 | 38.0 | 225 | 180 N | PA66W | Black (BK) | 500 pcs. | 2;4-6;8 | 117-05060 |
| **T50IDH** | 4.7 | 305.0 | 76.0 | 225 | 180 N | PA66 | Natural (NA) | 1,000 pcs. | 2;4-6;8 | 117-05303 |
| | 4.7 | 305.0 | 76.0 | 225 | 180 N | PA66HS | Black (BK) | 1,000 pcs. | 2;4-6;8 | 117-05350 |
| | 4.7 | 305.0 | 76.0 | 225 | 180 N | PA66UV | Black (BK) | 100 pcs. | 2;4-6;8 | 117-05360 |
| **T50LDH** | 4.7 | 395.0 | 100.0 | 225 | 180 N | PA66 | Natural (NA) | 1,000 pcs. | 2;4-6;8 | 117-05461 |
| | 4.7 | 395.0 | 100.0 | 225 | 180 N | PA66HS | Black (BK) | 100 pcs. | 2;4-6;8 | 117-00008 |

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

| **Recommended Tools** | | | | | |
|---|---|---|---|---|---|
| | 2 | 4 | 5 | 6 | 8 |
| | MK20 | MK3SP | MK3PNSP2 | EVO7 | MK7P |
| 📄 | 545 | 546 | 546 | 548 | 550 |

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## Cable ties with low profile head

### LPH-Series

LPH cable ties are made of Polyamide 6.6 materials. The design with its serration on the outside provides a smooth surface to the cable bundle. Any damage to the insulation can be avoided. The flat head design offers additional benefit in areas with restricted space. They are mainly used within the electrical supply industry but perfectly suited for construction, heavy duty applications or the automotive industry.

**Features and benefits**

- For more flexibility high impact modifed cable ties are available
- Good tensile strength with a single or a double bridged head
- Outside serration allows for a smooth surface to bundle
- Design protects against damage to cable insulation
- Low profile head for optimized use especially in restricted areas
- Strap is threaded parallel through the low profile head

*LPH-Series with a smooth surface to the bundle.*
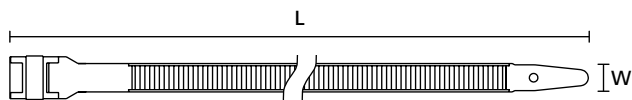
*LPH175*
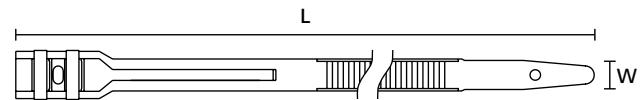
*LPH275, LPH350*

| TYPE | Width (W) | Length (L) | Bundle Ø max. | N | Material | Colour | Pack Cont. | Tools | Article-No. |
|------|-----------|------------|---------------|---|----------|--------|------------|-------|-------------|
| LPH175 | 9.0 | 175.0 | 40.0 | 310 | PA66 | Black (BK) | 100 pcs. | 1;3;9-12 | 112-00203 |
| LPH275 | 9.0 | 265.0 | 62.0 | 480 | PA66HIR(S) | Black (BK) | 100 pcs. | 1;3;9-12 | 112-00303 |
| LPH350 | 9.0 | 355.0 | 92.0 | 480 | PA66HIR(S) | Black (BK) | 100 pcs. | 1;3;9-12 | 112-00403 |
| LPH500 | 9.0 | 505.0 | 140.0 | 540 | PA66HIR(S) | Black (BK) | 100 pcs. | 1;3;9-12 | 112-00033 |
| LPH750 | 9.0 | 752.0 | 220.0 | 540 | PA66HIR(S) | Black (BK) | 100 pcs. | 1;3;9-12 | 112-00034 |

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

| **Recommended Tools** | | | | | | |
|---|---|---|---|---|---|---|
| | 1 | 3 | 9 | 10 | 11 | 12 |
| | MK10-SB | MK21 | MK6 | EVO9 | EVO9HT | MK9P |
| 📄 | 545 | 545 | 551 | 549 | 549 | 552 |

## Cable Ties inside serrated

Used in a wide range of industries these releasable and reusable ties are ideal where changes are anticipated. This includes temporary installation and the addition or removal of elements. These releasable cable ties are commonly used to fix stage equipment, for cable management at outdoor events or prototype harnessing work. The extended pawl is simply pushed down with a finger to release the strap.

### Features and benefits

- Releasable and reusable cable tie
- Multiple grades of PA66 for indoors, outdoors or at high temperatures
- Available in black and natural colour
- Extended trigger for simple and quick release of ties
- Inside serrated cable tie
- Different lengths available

RELK releasable cable ties for temporary bundling.
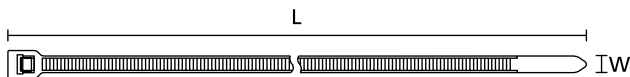
RELK-, RLT-Series

Application video:
RELK

### RELK-Series up to 200 N loop tensile strength

| TYPE | Width (W) | Length (L) | Bundle Ø max. | N | Material | Colour | Pack Cont. | Article-No. |
|------|-----------|-----------|---------------|-----|----------|--------|-----------|-------------|
| RELK2R | 4.6 | 200.0 | 50.0 | 200 | PA66 | Natural (NA) | 100 pcs. | 115-02202 |
| RELK2M | 4.6 | 250.0 | 65.0 | 200 | PA66 | Black (BK) | 100 pcs. | 115-02000 |
|        | 4.6 | 250.0 | 65.0 | 200 | PA66 | Natural (NA) | 100 pcs. | 115-06729 |
| RELK2I | 4.6 | 300.0 | 81.0 | 200 | PA66 | Black (BK) | 100 pcs. | 115-06760 |
|        | 4.6 | 300.0 | 81.0 | 200 | PA66 | Natural (NA) | 100 pcs. | 115-02101 |
| RELK2L | 4.6 | 350.0 | 95.0 | 200 | PA66 | Black (BK) | 100 pcs. | 115-02300 |
|        | 4.6 | 350.0 | 95.0 | 200 | PA66 | Natural (NA) | 100 pcs. | 115-06919 |

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

### RLT-Series up to 670 N loop tensile strength

| TYPE | Width (W) | Length (L) | Bundle Ø max. | N | Material | Colour | Pack Cont. | Article-No. |
|------|-----------|-----------|---------------|-----|----------|--------|-----------|-------------|
| RLT120 | 7.6 | 340.0 | 90.0 | 535 | PA66 | Black (BK) | 100 pcs. | 111-70361 |
|        | 7.6 | 340.0 | 90.0 | 535 | PA66 | Natural (NA) | 100 pcs. | 111-70319 |
| RLT150 | 8.9 | 770.0 | 225.0 | 670 | PA66 | Black (BK) | 50 pcs. | 111-70110 |
|        | 8.9 | 770.0 | 225.0 | 670 | PA66 | Natural (NA) | 50 pcs. | 111-70119 |
|        | 8.9 | 770.0 | 225.0 | 670 | PA66HS | Natural (NA) | 50 pcs. | 111-70159 |
|        | 8.9 | 770.0 | 225.0 | 670 | PA66W | Black (BK) | 50 pcs. | 111-70160 |

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 with tuckaway

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 re-used. 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



*Ideal for larger or heavier bundles these ties can be opened and reused.*
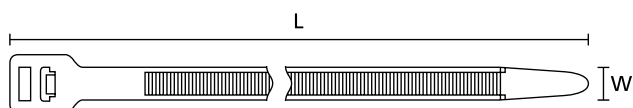


*RT250-Series*

### RT250-Series

| TYPE | Width (W) | Length (L) | Bundle Ø max. | N | Material | Colour | Pack Cont. | Article-No. |
|---|---|---|---|---|---|---|---|---|
| **RT250M** | 12.5 | 565.3 | 150.0 | 1,115 | PA66 | Black (BK) | 25 pcs. | 131-75610 |
| | 12.5 | 565.3 | 150.0 | 1,115 | PA66 | Natural (NA) | 25 pcs. | 131-75619 |
| | 12.5 | 565.3 | 150.0 | 1,115 | PA66UV | Black (BK) | 25 pcs. | 131-75620 |
| **RT250XL** | 12.5 | 1,030.0 | 305.0 | 1,115 | PA66 | Black (BK) | 25 pcs. | 131-75510 |
| | 12.5 | 1,030.0 | 305.0 | 1,115 | PA66 | Natural (NA) | 25 pcs. | 131-75519 |

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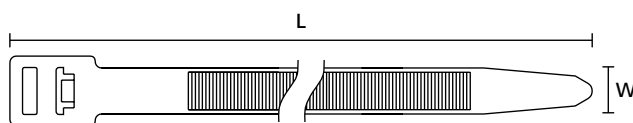


*REL250-Series*

### REL250-Series

| TYPE | Width (W) | Length (L) | Bundle Ø max. | N | Material | Colour | Pack Cont. | Article-No. |
|---|---|---|---|---|---|---|---|---|
| **REL250S** | 12.2 | 230.0 | 50.0 | 1,115 | PA66HIR(S) | Black (BK) | 50 pcs. | 111-00074 |
| **REL250X** | 12.2 | 385.0 | 100.0 | 1,115 | PA66HIR(S) | Black (BK) | 50 pcs. | 111-00075 |

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

HellermannTyton

## 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
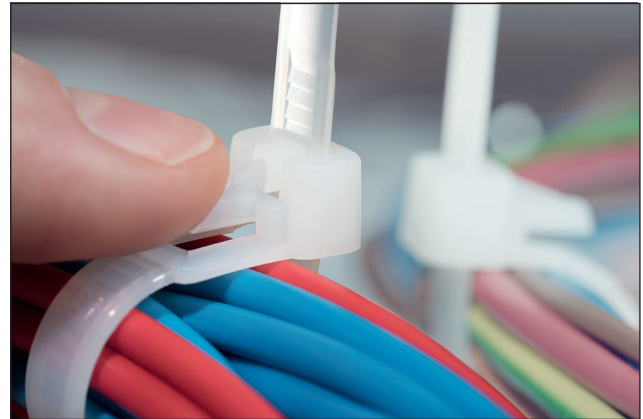
*Releasable and reusable cable tie, REL-Series.*
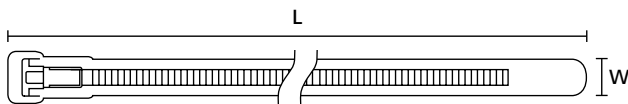
*REL-Series*

| TYPE | Width (W) | Length (L) | Bundle Ø max. | N | Material | Colour | Pack Cont. | Article-No. |
|---|---|---|---|---|---|---|---|---|
| **REL180** | 6.5 | 180.0 | 46.0 | 150 | PA66 | Black (BK) | 100 pcs. | 115-00027 |
| **REL100** | 6.7 | 100.0 | 21.0 | 180 | PA66 | Black (BK) | 100 pcs. | 131-21010 |
| | 6.7 | 100.0 | 21.0 | 180 | PA66 | Natural (NA) | 100 pcs. | 131-21019 |
| **REL140** | 7.6 | 150.0 | 35.0 | 200 | PA66 | Black (BK) | 100 pcs. | 131-21410 |
| | 7.6 | 150.0 | 35.0 | 200 | PA66 | Natural (NA) | 100 pcs. | 131-21419 |
| **REL250** | 7.6 | 250.0 | 68.0 | 200 | PA66 | Black (BK) | 100 pcs. | 131-22510 |
| | 7.6 | 250.0 | 68.0 | 200 | PA66 | Natural (NA) | 100 pcs. | 131-22519 |
| | 7.6 | 250.0 | 68.0 | 200 | PA66W | Black (BK) | 100 pcs. | 131-22560 |

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

HellermannTyton

## Cable Ties outside serrated for marking

**LR55-Series**

Releasable cable ties of our LR55-Series offer some extra benefits. Their serration is on the outside of the cable tie. This will minimise the risk of damage to cables or other elements. Additionally LR55 cable ties are available in different colours – optimally suited for temporary identification within logistic, packaging, cable harness production or for testing purposes. The strap is released when pushing the extended pawl upwards. The risk of opening the cable tie accidentally is minimised.

### Features and benefits

- Releasable and reusable cable tie
- Various colours for applications needing colour coding
- Extended trigger for simple and quick release of ties
- Risk of accidental release is minimised
- Outside serration prevents damage to cable insulation
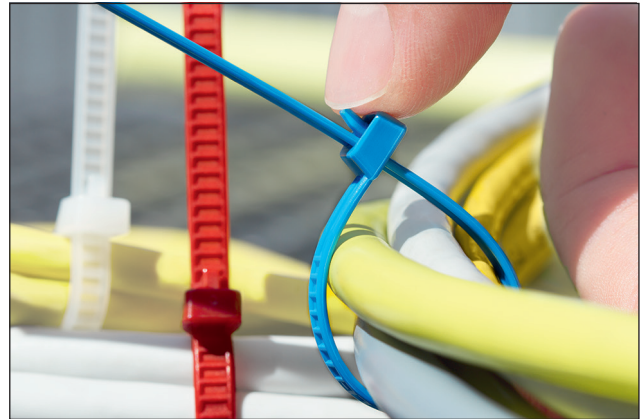


*Releasable and outside serrated LR55 cable ties are ideal suited for colour coding.*

*Application video: LR55*
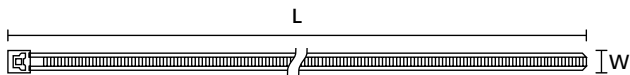
*LR55 Series*

| TYPE | Width (W) | Length (L) | Bundle Ø max. | N | Material | Colour | Pack Cont. | Article-No. |
|------|-----------|------------|---------------|-----|----------|--------|-----------|-------------|
| **LR55R** | 4.7 | 195.0 | 50.0 | 245 | PA66 | Blue (BU) | 25 pcs. | 115-00006 |
| | 4.7 | 195.0 | 50.0 | 245 | PA66 | Green (GN) | 25 pcs. | 115-00005 |
| | 4.7 | 195.0 | 50.0 | 245 | PA66 | Natural (NA) | 25 pcs. | 115-00008 |
| | 4.7 | 195.0 | 50.0 | 245 | PA66 | Red (RD) | 25 pcs. | 115-00003 |
| | 4.7 | 195.0 | 50.0 | 245 | PA66 | Yellow (YE) | 25 pcs. | 115-00004 |
| | 4.7 | 195.0 | 50.0 | 245 | PA66HS | Black (BK) | 25 pcs. | 115-00002 |

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

**HellermannTyton**

## Cable Ties without serration in flexible TPU

The SRT range offers solutions to numerous bundling applications. The soft, flexible material makes these ties particularly suitable for use on data and fibre-optic cables. The elasticity of the material makes them ideal for securing young trees to support poles, and other applications within the gardening and landscaping industry.

**Features and benefits**

- Elastic and flexible cable ties with rounded and smooth edges
- Releasable and reusable
- Double slotted head with fixation pawl
- Flexibility ensures steady and evenly distributed pressure
- Tight fixation even in vertical position: prevent sliding down or loosening bundle
- Suitable for moving elements and vibrating applications like windmills, machines, robotics, pulsating tubing and conduits
- Ideal use for temporarily fixation for presentations, concerts, theatres, exhibitions
- Long lifetime when used indoor
- Remains flexible even at cold temperatures (-20°C)

ℹ️ **With 2nd loop to run bundles in parallel!**

Application video: SOFTFIX
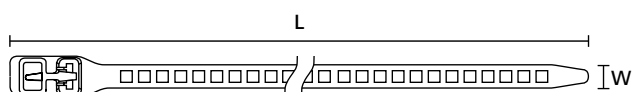

*The elasticity of the SOFTIX ties makes them suitable for use in many applications.*


*SOFTFIX ties available in small packaging units.*

*SRT- and SOFTFIX-Series*

### SRT-Series for industry quantities

| TYPE | Width (W) | Length (L) | Bundle Ø max. | N | Material | Colour | Pack Cont. | Article-No. |
|---|---|---|---|---|---|---|---|---|
| SRT1807 | 7.0 | 180.0 | 45.0 | 57 | TPU | Black (BK) | 50 pcs. | 115-07189 |
| SRT2607 | 7.0 | 260.0 | 70.0 | 57 | TPU | Black (BK) | 50 pcs. | 115-07269 |
| SRT26011 | 11.0 | 260.0 | 65.0 | 123 | TPU | Black (BK) | 50 pcs. | 115-11269 |
| SRT34011 | 11.0 | 340.0 | 90.0 | 123 | TPU | Black (BK) | 50 pcs. | 115-11349 |
| SRT58028 | 28.0 | 580.0 | 150.0 | 360 | TPU | Black (BK) | 10 pcs. | 115-28589 |
| SRT88028 | 28.0 | 880.0 | 240.0 | 360 | TPU | Black (BK) | 180 pcs. | 115-28889 |

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

### SOFTFIX-Family

| TYPE | Width (W) | Length (L) | Bundle Ø max. | N | Material | Colour | Pack Cont. | Article-No. |
|---|---|---|---|---|---|---|---|---|
| SOFTFIX XS | 7.0 | 180.0 | 45.0 | 57 | TPU | Black (BK) | 16 pcs. | 115-07190 |
| SOFTFIX S | 7.0 | 260.0 | 70.0 | 57 | TPU | Black (BK) | 12 pcs. | 115-07270 |
| SOFTFIX M | 11.0 | 260.0 | 65.0 | 123 | TPU | Black (BK) | 8 pcs. | 115-11270 |
| SOFTFIX L | 11.0 | 340.0 | 90.0 | 123 | TPU | Black (BK) | 6 pcs. | 115-11350 |
| SOFTFIX XL | 28.0 | 580.0 | 150.0 | 360 | TPU | Black (BK) | 3 pcs. | 115-28590 |
| SOFTFIX XXL | 28.0 | 880.0 | 240.0 | 360 | TPU | Black (BK) | 3 pcs. | 115-28898 |

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 with one-hand release mechanism
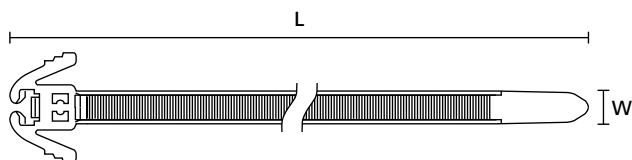
### REZ-Series

Perfect for use in the packaging industry as a bag closure where access to part of the bag content may be needed but the bag need to be re-sealed later. Something that often occurs for instance in the catering or service industry. In addition the cable tie can be opened easily with only two fingers by simply pushing the wings of the unique head.

**Features and benefits**

- REZ-Series can be released and reused
- Unique head design for simple and rapid use
- Quick-release mechanism for one-hand operation
- Cable tie can be opened even when under tension
- Can still be released when working with gloves

*The inside serrated REZ ties have a one-hand, simple release mechanism.*

*Application video: REZ*

REZ-Series

| TYPE | Width (W) | Length (L) | Bundle Ø max. | N | Material | Colour | Pack Cont. | Article-No. |
|---|---|---|---|---|---|---|---|---|
| **REZ200** | 4.7 | 200.0 | 50.0 | 135 | PA66 | Black (BK) | 100 pcs. | 115-40200 |
| | 4.7 | 200.0 | 50.0 | 135 | PA66 | Fluorescent Pink (FLPK) | 100 pcs. | 115-00147 |
| | 4.7 | 200.0 | 50.0 | 135 | PA66 | Green (GN) | 100 pcs. | 115-00106 |
| | 4.7 | 200.0 | 50.0 | 135 | PA66 | Orange (OG) | 100 pcs. | 115-00132 |
| **REZ300** | 4.7 | 305.0 | 80.0 | 135 | PA66 | Black (BK) | 100 pcs. | 115-40300 |
| | 4.7 | 305.0 | 80.0 | 135 | PA66 | Fluorescent Pink (FLPK) | 100 pcs. | 115-00138 |
| | 4.7 | 305.0 | 80.0 | 135 | PA66 | Red (RD) | 100 pcs. | 115-00043 |

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 Tie with quick release mechanism

### SpeedyTie

The versatility of the SpeedyTie means that it is suitable for a multitude of applications like electro installations, heating and ventilation, construction, exhibitions and trade fairs. Whether it is used for permanent or temporarily solutions the SpeedyTie is a very strong helping hand in every situation.
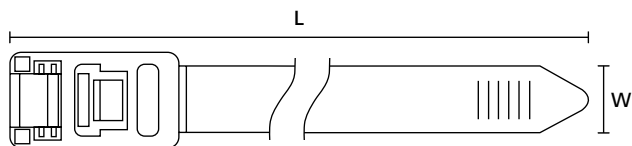
**Features and benefits**

- Releasable and reusable cable tie
- Bears loads of up to 888 N (approx. 90 kg)
- 750 mm long for use in a wide variety of applications
- Can be used for parallel bundling
- Easy to handle when wearing work gloves
- Available in signal yellow and in black
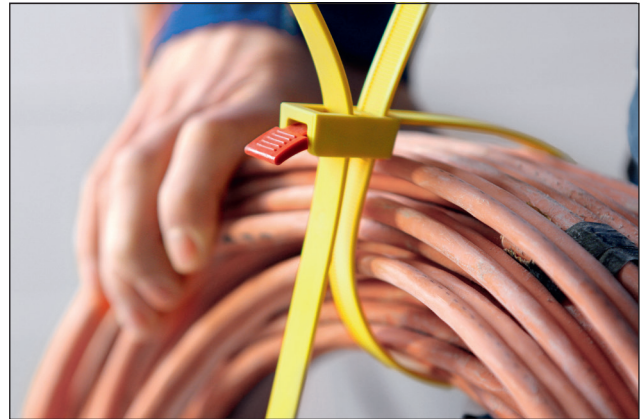
*Excess Tails can be neatly tucked away.*

**Patented**

*Application video:*
*SpeedyTie®*

*SpeedyTie®*

| TYPE | Width (W) | Length (L) | Bundle Ø max. | N | Material | Colour | Pack Cont. | Article-No. |
|---|---|---|---|---|---|---|---|---|
| | 13.0 | 752.0 | 210.0 | 888 | PA66 | Yellow (YE), Red (RD) | 5 pcs. | 115-00001 |
| SpeedyTie (RTT750HR) | 13.0 | 752.0 | 210.0 | 888 | PA66 | Yellow (YE), Red (RD) | 25 pcs. | 115-00000 |
| | 13.0 | 752.0 | 210.0 | 888 | PA66HIR(S) | Black (BK) | 5 pcs. | 115-00030 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.
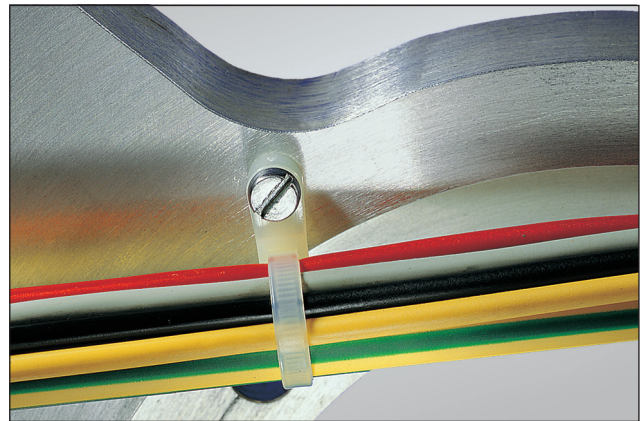
## 1-Piece Fixing Ties with Mounting Head for Screws

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.
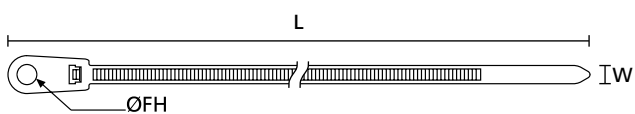
The tie is fitted to the panel first and then the cables can be added.

### Features and benefits

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


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


*T( )MR Series with Mounting Head for Screw fixing*

| TYPE | Hole Ø (FH) | N | Width (W) | Length (L) | Bundle Ø max. | Material | Colour | Tools | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| T18MR | 3.1 | 80 | 2.5 | 110.0 | 20.0 | PA66 | Black (BK) | 2;4-6 | 113-01810 |
| | 3.1 | 80 | 2.5 | 110.0 | 20.0 | PA66 | Natural (NA) | 2;4-6 | 113-01819 |
| T30MR | 4.3 | 135 | 3.5 | 160.0 | 32.0 | PA66 | Natural (NA) | 2;4-6 | 113-03019 |
| | 4.3 | 135 | 3.5 | 160.0 | 32.0 | PA66 | Black (BK) | 2;4-6 | 113-03010 |
| T50MS | 5.3 | 225 | 4.6 | 165.0 | 32.0 | PA66 | Natural (NA) | 2-10 | 113-05819 |
| | 5.3 | 225 | 4.6 | 165.0 | 32.0 | PA66 | Black (BK) | 2-10 | 113-05820 |
| T50MR | 5.4 | 225 | 4.7 | 215.0 | 45.0 | PA66 | Black (BK) | 2-10 | 113-05010 |
| | 5.4 | 225 | 4.7 | 215.0 | 45.0 | PA66 | Natural (NA) | 2-10 | 113-05019 |
| | 5.4 | 225 | 4.7 | 215.0 | 45.0 | PA66W | Black (BK) | 2-10 | 113-05060 |
| T50ML | 5.5 | 225 | 4.7 | 390.0 | 100.0 | PA66 | Natural (NA) | 2-10 | 113-05419 |
| T120MR | 6.5 | 535 | 7.6 | 395.0 | 102.0 | PA66 | Black (BK) | 3;9-12 | 113-12020 |
| | 6.5 | 535 | 7.6 | 395.0 | 102.0 | PA66 | Natural (NA) | 3;9-12 | 113-12029 |
| | 6.5 | 535 | 7.6 | 395.0 | 102.0 | PA66HIRHSUV | Black (BK) | 3;9-12 | 113-12060 |

All dimensions in mm. Subject to technical changes.

| Recommended Tools | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P |
| 📄 | 545 | 545 | 546 | 546 | 548 | 549 | 550 | 551 | 549 | 549 | 552 |

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## 2-Piece Fixing Ties for parallel separation

**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
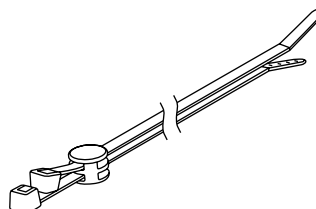- For parallel routing of bundles that can be twisted 90° even after installation

*T120RCoupler can be used for parallel routing of two cable ties.*

*The second tie can be used for post-installations.*

L

IW
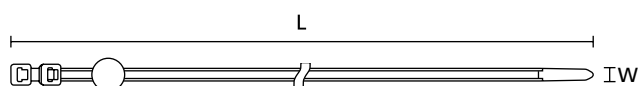
*Two Cable Ties with Coupler*

*T120RCoupler*

*Fixing Element - Coupler*

| TYPE | Width (W) | Length (L) | Bundle Ø max. | N | Material Cable Tie | Material Foot Part | Colour | Tools | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| T50RCOUPLER | 4.6 | 202.0 | 47.0 | 225 | PA46 | PA46 | Grey (GY) | 2-10 | 156-00382 |
| | 4.6 | 202.0 | 47.0 | 225 | PA66HIR(S) | PA66HIRHS | Black (BK) | 2-10 | 156-00276 |
| T50RSINGLECOUPLER | 4.6 | 202.0 | 47.0 | 225 | PA66HIRHS | PA66HIRHS | Black (BK) | 2-10 | 156-01134 |
| T120RCOUPLER | 7.6 | 390.0 | 105.0 | 535 | PA46 | PA46 | Grey (GY) | 3;9-12 | 156-02416 |
| | 7.6 | 390.0 | 105.0 | 535 | PA66HIR(S) | PA66HIRHS | Black (BK) | 3;9-12 | 156-00275 |

All dimensions in mm. Subject to technical changes.

| Recommended Tools | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 15 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P | MK9SST |
| 📄 | 545 | 545 | 546 | 546 | 548 | 549 | 550 | 551 | 549 | 549 | 552 | 554 |

**Hellermann**Tyton

## 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
- Adhesive with high cohesive strength combined with good weathering resistance
- Innovative fixing solution for high and low energy surfaces
- Protection foil with finger lift for easy peel off
- Temperature resistance up to +105 °C
- 4-way entry for cable tie for quicker and more flexible installation
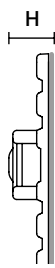- FMB4APT-I is also suitable for high energy surfaces like metal or glass
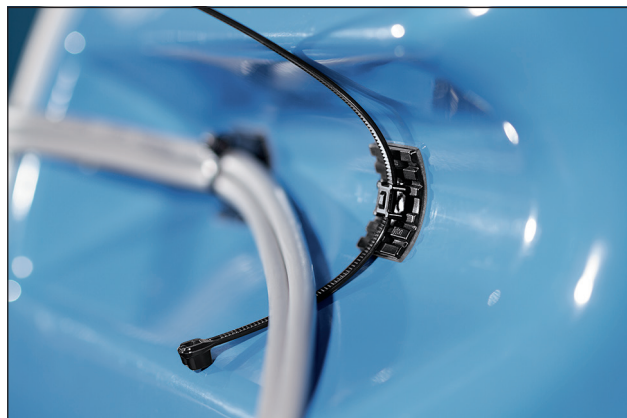
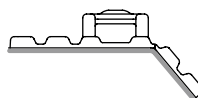*Flexible cable tie mount, FlexTack in use on a concaved surface.*

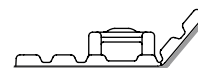*Application video: FlexTack*
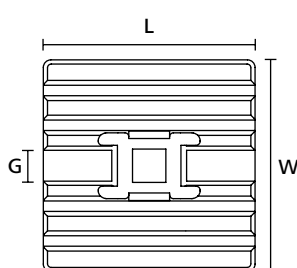
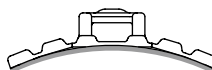*Flexible Adhesive Mount FMB4APT-I (plan view)*

*Flexible Adhesive Mount FMB4APT-I (side view)*

*Flexible Adhesive Mount FMB4APT-I (down angled, side view)*

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

*Flexible Adhesive Mount FMB4APT-I (convex, side view)*

*Flexible Adhesive Mount FMB4APT-I (concave, side view)*

| TYPE | Width (W) | Length (L) | Height (H) | Strap Width max. (G) | Material | Colour | Adhesive | Pack Cont. | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| FMB4APT-I | 28.0 | 28.0 | 6.3 | 5.4 | PA66HS | Black (BK) | mod. Acrylate T90 | 100 pcs. | 151-01527 |
|  | 28.0 | 28.0 | 6.3 | 5.4 | PA66HS | White (WH) | mod. Acrylate T90 | 100 pcs. | 151-01528 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.
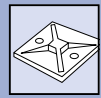
## Cable Tie Mounts with high perfomance adhesive

### 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
- Adhesive with high cohesive strength combined with good weathering resistance
- Innovative fixing solution for high and low energy surfaces
- Protection foil with finger lift for easy peel off
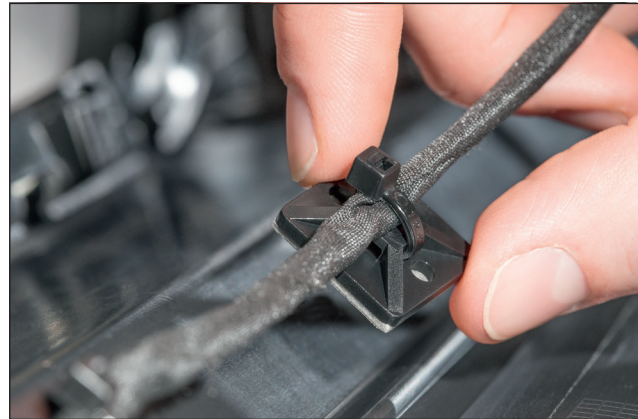
*SolidTack MB Series mounts with square design - screwable, self-adhesive - suitable for a wide range of applications like fastening of cables in the automotive machinery.*
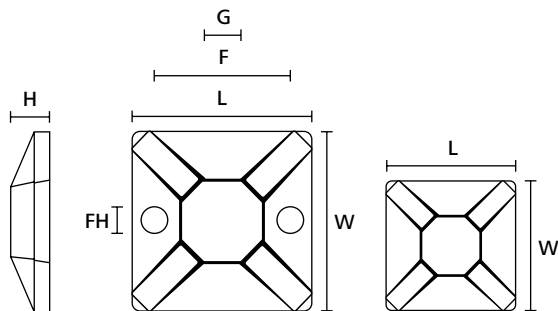
MB3-MB5 (side view)    MB3-MB5 (plan view)    Cable Tie Mounts MB2A

| TYPE | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Fixing Hole Centres (F) | Strap Width max. (G) | Material | Colour | Adhesive | Pack Cont. | Article-No. |
|------|-----------|------------|------------|-------------|-------------------------|----------------------|----------|--------|-----------|------------|-------------|
| MB2APT-I | 13.0 | 13.0 | 4.1 | - | - | 2.7 | PA66 | Black (BK) | mod. Acrylate T90 | 100 pcs. | 151-01556 |
| MB3APT-I | 19.0 | 19.0 | 3.8 | 3.1 | 13.2 | 4.4 | PA66 | Black (BK) | mod. Acrylate T90 | 100 pcs. | 151-01557 |
|  | 19.0 | 19.0 | 3.8 | 3.1 | 13.2 | 4.4 | PA66 | White (WH) | mod. Acrylate T90 | 100 pcs. | 151-01558 |
| MB4APT-I | 28.0 | 28.0 | 4.7 | 4.0 | 20.2 | 5.6 | PA66 | Black (BK) | mod. Acrylate T90 | 100 pcs. | 151-01559 |
|  | 28.0 | 28.0 | 4.7 | 4.0 | 20.2 | 5.6 | PA66 | White (WH) | mod. Acrylate T90 | 100 pcs. | 151-01560 |
| MB5APT-I | 38.0 | 38.0 | 6.3 | 4.7 | 25.3 | 10.0 | PA66 | Black (BK) | mod. Acrylate T90 | 100 pcs. | 151-01561 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.
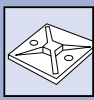
## Self Adhesive, Screw Fixing Cable Tie Mounts

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

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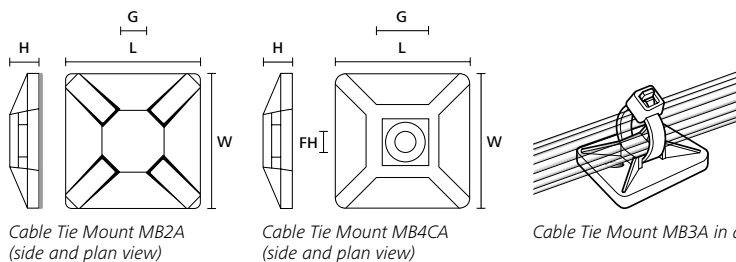
*MB-Series Mounts with square design / screwable, self adhesive.*

### MB-Series square design, screwable

*MB3-MB5 (side view)*

*MB3-MB5 (plan view)*
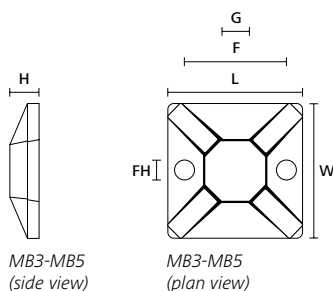
| TYPE | Width (W) | Length (L) | Height (H) | Fixing Hole Centres (F) | Hole Ø (FH) | Strap Width max. (G) | Material | Colour | Pack Cont. | Article-No. |
|------|-----------|------------|------------|------------------------|-------------|---------------------|----------|--------|-----------|-------------|
| MB3 | 19.0 | 19.0 | 3.8 | 13.2 | 3.1 | 4.1 | PA66 | White (WH) | 100 pcs. | 151-28359 |
| MB4 | 28.0 | 28.0 | 4.7 | 20.0 | 4.0 | 5.4 | PA66 | White (WH) | 100 pcs. | 151-28479 |
| MB5 | 37.7 | 37.7 | 6.2 | 25.3 | 4.8 | 8.9 | PA66 | White (WH) | 100 pcs. | 151-00324 |

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

### MB-Series square design, self adhesive, screwable

*Cable Tie Mount MB2A (side and plan view)*

*Cable Tie Mount MB4CA (side and plan view)*

*Cable Tie Mount MB3A in application*

| TYPE | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Strap Width max. (G) | Material | Colour | Adhesive | Pack Cont. | Article-No. |
|------|-----------|------------|------------|-------------|---------------------|----------|--------|----------|-----------|-------------|
| MB2A | 13.0 | 13.0 | 4.1 | - | 2.7 | PA66 | Black (BK) | Synthetic rubber T60 | 50 pcs. | 151-01800 |
| | 13.0 | 13.0 | 4.1 | - | 2.7 | PA66 | White (WH) | Synthetic rubber T60 | 100 pcs. | 151-01802 |
| MB3A | 19.0 | 19.0 | 3.8 | 3.1 | 4.1 | PA66 | Black (BK) | Synthetic rubber T60 | 100 pcs. | 151-28320 |
| | 19.0 | 19.0 | 3.8 | 3.1 | 4.1 | PA66 | White (WH) | Synthetic rubber T60 | 100 pcs. | 151-28349 |
| MB4A3 | 28.0 | 28.0 | 4.7 | 4.0 | 5.4 | PA66 | Black (BK) | Acrylate | 100 pcs. | 151-28430 |
| MB4A | 28.0 | 28.0 | 4.7 | 4.0 | 5.4 | PA66 | Black (BK) | Synthetic rubber T60 | 100 pcs. | 151-28412 |
| | 28.0 | 28.0 | 4.7 | 4.0 | 5.4 | PA66 | White (WH) | Synthetic rubber T60 | 100 pcs. | 151-28469 |
| MB4CA* | 29.0 | 29.0 | 5.7 | 4.2 | 5.4 | PA66 | Natural (NA) | Synthetic rubber T60 | 100 pcs. | 151-28459 |
| MB4CAS | 29.0 | 29.0 | 5.7 | 4.2 | 5.4 | PA66 | Natural (NA) | Synthetic rubber T60 | 100 pcs. | 151-28449 |
| MB5A | 37.7 | 37.7 | 7.1 | 4.8 | 8.9 | PA66 | Black (BK) | Synthetic rubber T50 | 100 pcs. | 151-28602 |
| | 37.7 | 37.7 | 7.1 | 4.8 | 8.9 | PA66 | White (WH) | Synthetic rubber T50 | 100 pcs. | 151-28529 |
| MB5A3 | 38.0 | 38.0 | 6.4 | 4.7 | 10.0 | PA66 | Black (BK) | Acrylate | 100 pcs. | 151-28530 |

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

**Hellermann Tyton**
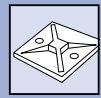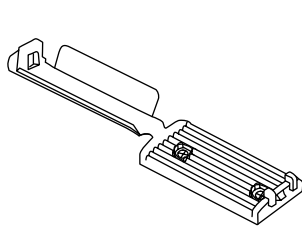
## Flat ribbon cable mounts

These clips are ideal for use in applications which are difficult to access, or for areas where a self adhesive solution is the only possible fixing method (for example 'holes' would be unacceptable). The FKH clips are designed to retain flat ribbon cables - ideal for use in computer equipment, gaming machines and domestic appliances. Available as a self-adhesive mount or screw mount.
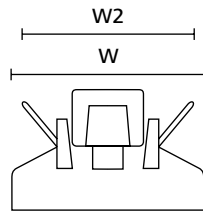
**Features and benefits**

• One-piece fixing mount for flat ribbon cables
• Increased mounting area ensures proper bonding
• Quick and easy installation
• Can be released and re-used easily
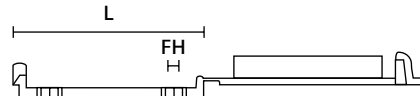• Flat cable is gently fastened due to soft wings
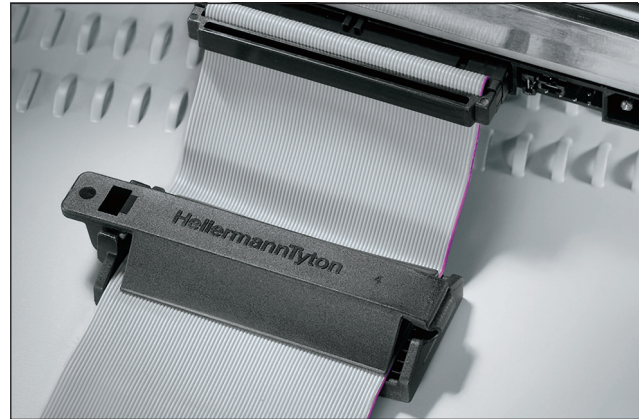
*Based on extremely soft wings any flat cable is gently fastened.*

*Fixing can be realised with M3 screws or acrylic adhesive backing*

*Flat Ribbon Cable Mount (front view)*

*Flat Ribbon Cable Mount (side view)*

**SolidTack-Series FKH, high performance adhesive**

| TYPE | Width (W) | Width (W2) | Length (L) | Hole Ø (FH) | For Cable Width max. | Material | Colour | Adhesive | Pack Cont. | Article-No. |
|---|---|---|---|---|---|---|---|---|---|---|
| FKH25APT-I | 25.0 | 22.0 | 31.0 | 3.1 | 25.0 | PA66HIR | Black (BK) | mod. Acrylate T90 | 100 pcs. | 151-02363 |
| FKH50APT-I | 25.0 | 22.0 | 56.5 | 3.1 | 50.0 | PA66HIR | Black (BK) | mod. Acrylate T90 | 100 pcs. | 151-01562 |
| FKH80APT-I | 25.0 | 22.0 | 86.0 | 3.1 | 80.0 | PA66HIR | Black (BK) | mod. Acrylate T90 | 100 pcs. | 151-01563 |

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

**FKH-Series, self adhesive, screw fixing**

| TYPE | Width (W) | Length (L) | Width (W2) | Hole Ø (FH) | Material | Colour | Adhesive | Article-No. |
|---|---|---|---|---|---|---|---|---|
| FKH25A | 25.0 | 31.0 | 22.0 | 3.1 | PA66HIR | Black (BK) | Acrylate | 151-15250 |
| FKH30A | 25.0 | 35.0 | 22.0 | 3.1 | PA66HIR | Black (BK) | Acrylate | 151-15300 |
| FKH50A | 25.0 | 56.5 | 22.0 | 3.1 | PA66HIR | Black (BK) | Acrylate | 151-15500 |
| FKH80A | 25.0 | 86.0 | 22.0 | 3.1 | PA66HIR | Black (BK) | Acrylate | 151-15800 |

All dimensions in mm. Subject to technical changes.

**FKH-Series, screw fixing**

| TYPE | Width (W) | Length (L) | Width (W2) | Hole Ø (FH) | Material | Colour | Article-No. |
|---|---|---|---|---|---|---|---|
| FKH25 | 25.0 | 31.0 | 22.0 | 3.1 | PA66HIR | Black (BK) | 151-16250 |
| FKH30 | 25.0 | 35.0 | 22.0 | 3.1 | PA66HIR | Black (BK) | 151-16300 |
| FKH50 | 25.0 | 56.5 | 22.0 | 3.1 | PA66HIR | Black (BK) | 151-16500 |
| FKH80 | 25.0 | 86.0 | 22.0 | 3.1 | PA66HIR | Black (BK) | 151-16800 |

All dimensions in mm. Subject to technical changes.

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## Mounts with round design, 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 round 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
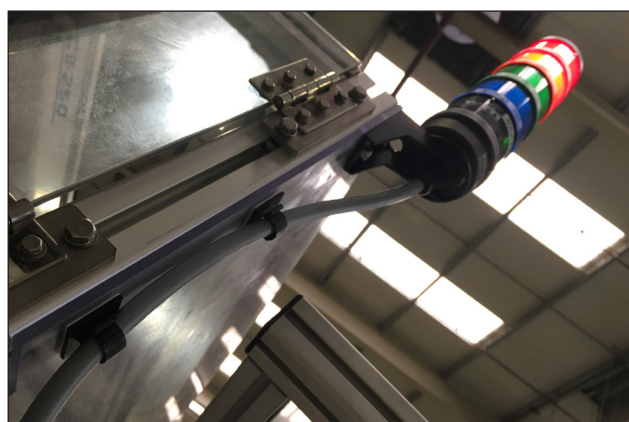- Two types of adhesive can be offered
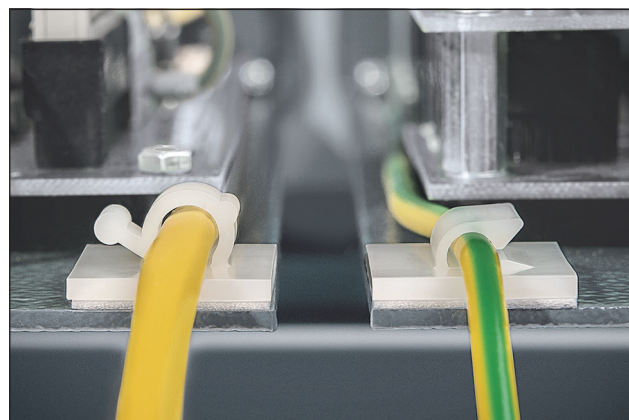

*Self adhesive one piece fixing mounts RA6 (l) and RB5 (r).*
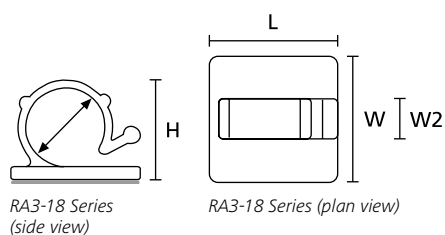




*RA3-18 Series (side view)*

*RA3-18 Series (plan view)*

| TYPE | Width (W) | Width (W2) | Length (L) | Height (H) | Bundle Ø max. | Material | Colour | Adhesive | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| RA3 | 13.0 | 5.0 | 13.0 | 5.0 | 3.0 | PA66 | Natural (NA) | Synthetic rubber T60 | 151-13018 |
| RA6APT-I | 19.0 | 5.0 | 19.0 | 9.0 | 6.0 | PA66 | Natural (NA) | mod. Acrylate T90 | 151-01635 |
| RA6 | 19.0 | 5.0 | 19.0 | 9.0 | 6.0 | PA66 | Natural (NA) | Synthetic rubber T60 | 151-13019 |
| RA9 | 19.0 | 7.5 | 19.0 | 12.5 | 9.0 | PA66 | Natural (NA) | Synthetic rubber T60 | 151-13020 |
| RA13APT-I | 25.0 | 10.0 | 25.0 | 16.5 | 13.0 | PA66 | Natural (NA) | mod. Acrylate T90 | 151-01636 |
| RA13 | 25.0 | 10.0 | 25.0 | 16.5 | 13.0 | PA66 | Natural (NA) | Synthetic rubber T60 | 151-13021 |
| RA18 | 28.5 | 10.0 | 28.5 | 23.0 | 18.0 | PA66 | Natural (NA) | Synthetic rubber T60 | 151-13119 |

All dimensions in mm. Subject to technical changes.

**Hellermann**Tyton
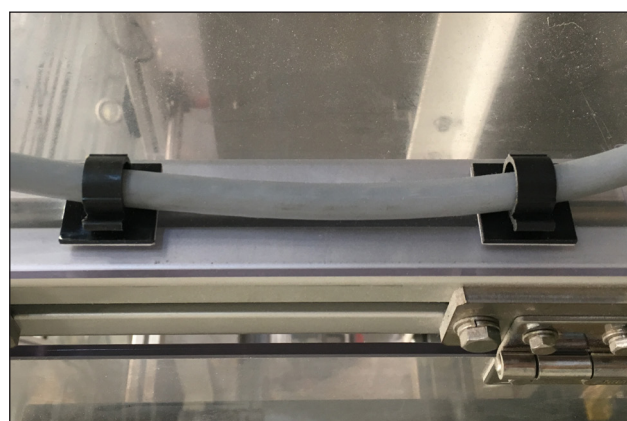
## Mounts with flat and round design, self adhesive

### 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

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

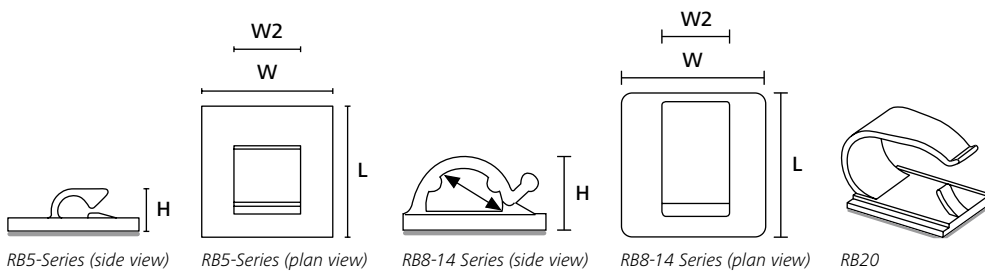RB5-Series (side view)    RB5-Series (plan view)    RB8-14 Series (side view)    RB8-14 Series (plan view)    RB20

| TYPE | Width (W) | Width (W2) | Length (L) | Height (H) | Bundle Ø max. | Material | Colour | Adhesive | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| RB5 | 19.0 | 9.7 | 19.0 | 6.0 | 5.0 | PA66 | Black (BK) | Synthetic rubber T60 | 151-14000 |
|  | 19.0 | 9.7 | 19.0 | 6.0 | 5.0 | PA66 | Natural (NA) | Synthetic rubber T60 | 151-14059 |
| RB8 | 25.0 | 12.7 | 25.0 | 11.5 | 8.0 | PA66 | Black (BK) | Synthetic rubber T60 | 151-13601 |
|  | 25.0 | 12.7 | 25.0 | 11.5 | 8.0 | PA66 | Natural (NA) | Synthetic rubber T60 | 151-13606 |
| RB20 | 27.0 | 18.0 | 33.0 | 25.0 | 20.0 | PA66HIRHS | Black (BK) | Synthetic rubber T60 | 151-00831 |
| RB14 | 27.4 | 23.0 | 33.2 | 16.0 | 14.0 | PA66 | Black (BK) | Synthetic rubber T60 | 151-00502 |
|  | 27.4 | 23.0 | 33.2 | 16.0 | 14.0 | PA66 | Natural (NA) | Synthetic rubber T60 | 151-00505 |

All dimensions in mm. Subject to technical changes.

## Mounts with flexible flat design
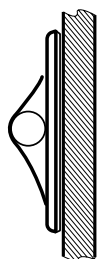
### SAC-Series

These clips are ideal for use in applications which are difficult to access, or for areas where a self adhesive solution is the only possible fixing method and holes would be unacceptable. Typical applications include domestic appliances and trailers.

**Features and benefits**
- Bendable metal tongue for any shape or configuration of wires or cables
- Cost effective with easy application on smooth, clean surfaces



*Malleable tongue allows for a variety of sizes per clip.*
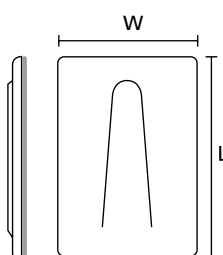


*SAC-Series Self Adhesive Clip*

*SAC-Series in application*

| TYPE | Width (W) | Length (L) | Bundle Ø max. | Material | Colour | Adhesive | Article-No. |
|---|---|---|---|---|---|---|---|
| SAC0 | 15.0 | 20.0 | 3.0 | ST | White (WH) | Acrylate | 151-00033 |
| SAC1 | 20.0 | 30.0 | 4.0 | ST | White (WH) | Acrylate | 151-00100 |
| SAC2 | 25.0 | 35.0 | 8.0 | ST | White (WH) | Acrylate | 151-00200 |
| SAC3 | 31.0 | 43.0 | 12.0 | ST | White (WH) | Acrylate | 151-00300 |
| SAC4 | 38.0 | 51.0 | 16.0 | ST | White (WH) | Acrylate | 151-00400 |

All dimensions in mm. Subject to technical changes.

### Type 130100

**Features and benefits**
- Self adhesive mount with integrated clamp for holding flat cables
- Manufactured from PVC
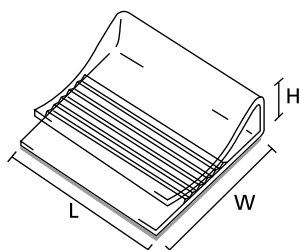


*130100 self adhesive mount*
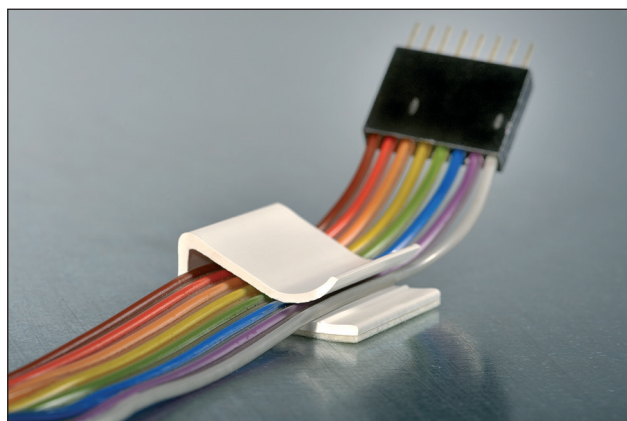


*130100 self adhesive mount for flat cables.*

| TYPE | Width (W) | Length (L) | Height (H) | Material | Colour | Adhesive | Article-No. |
|---|---|---|---|---|---|---|---|
| 130100 | 25.0 | 25.0 | 9.1 | PVC | White (WH) | Acrylate | 154-01119 |

All dimensions in mm. Subject to technical changes.

## 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.*

*KR6G5, KR8G5 and CTM (side view)*

*KR6G5, KR8G5 and CTM (plan view)*
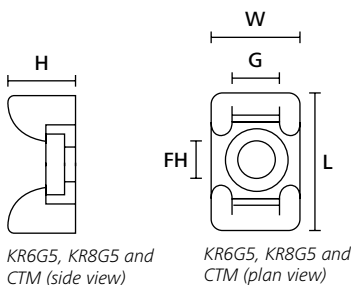
**i** **Can support quality assurance in the production of food stuffs, for example HACCP.**

| TYPE | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Strap Width max. (G) | Material | Colour | Pack Cont. | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| CTM0 | 9.4 | 14.7 | 6.9 | 3.8 | 5.0 | PA66 | Black (BK) | 100 pcs. | 151-30300 |
|  | 9.4 | 14.7 | 6.9 | 3.8 | 5.0 | PA66 | White (WH) | 100 pcs. | 151-30303 |
| CTM1 | 9.4 | 14.7 | 6.9 | 4.8 | 5.0 | PA66 | Black (BK) | 100 pcs. | 151-30400 |
|  | 9.4 | 14.7 | 6.9 | 4.8 | 5.0 | PA66 | White (WH) | 100 pcs. | 151-30404 |
| KR6G5 | 11.8 | 17.8 | 8.8 | 4.5 | 6.4 | E/TFE | Blue (BU) | 100 pcs. | 151-00653 |
| MCKR6G5 | 11.8 | 17.8 | 8.8 | 4.5 | 6.4 | PA66MP+ | Blue (BU) | 100 pcs. | 151-00950 |
| KR6G5 | 12.0 | 18.0 | 9.0 | 4.5 | 6.0 | PA66 | Natural (NA) | 100 pcs. | 151-24619 |
|  | 12.0 | 18.0 | 9.0 | 4.5 | 6.0 | PA66W | Black (BK) | 100 pcs. | 151-24660 |
| MCKR8G5-5 | 14.3 | 24.8 | 12.0 | 5.2 | 8.3 | PA66MP+ | Blue (BU) | 100 pcs. | 151-01020 |
| KR8G5 | 14.3 | 24.8 | 12.1 | 6.5 | 8.3 | E/TFE | Blue (BU) | 100 pcs. | 151-00654 |
|  | 14.5 | 25.0 | 12.0 | 6.5 | 8.0 | PA66 | Natural (NA) | 100 pcs. | 151-24819 |
|  | 14.5 | 25.0 | 12.0 | 6.5 | 8.0 | PA66HS | Black (BK) | 100 pcs. | 151-24850 |
| CTM2 | 15.5 | 21.8 | 9.4 | 4.6 | 7.9 | PA66 | Black (BK) | 100 pcs. | 151-30500 |
|  | 15.5 | 21.8 | 9.4 | 4.6 | 7.9 | PA66 | White (WH) | 100 pcs. | 151-30504 |
| CTM3 | 15.5 | 21.8 | 9.4 | 5.1 | 7.9 | PA66 | Black (BK) | 100 pcs. | 151-30600 |
|  | 15.5 | 21.8 | 9.4 | 5.1 | 7.9 | PA66 | White (WH) | 100 pcs. | 151-30605 |
| CTM4 | 15.8 | 21.8 | 9.4 | 6.4 | 7.9 | PA66 | Black (BK) | 100 pcs. | 151-30700 |
|  | 15.8 | 21.8 | 9.4 | 6.4 | 7.9 | PA66 | White (WH) | 100 pcs. | 151-30703 |

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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## Screw Fixing Mounts

**CTAM-Series for applications where space is limited**

Each of these products offers particular benefits, but all are designed for simple yet robust installation in a wide variety of applications. Particularly used in telecoms equipment, switchgear and control cabinets these cable tie mounts are also used within the aerospace and railway industry.

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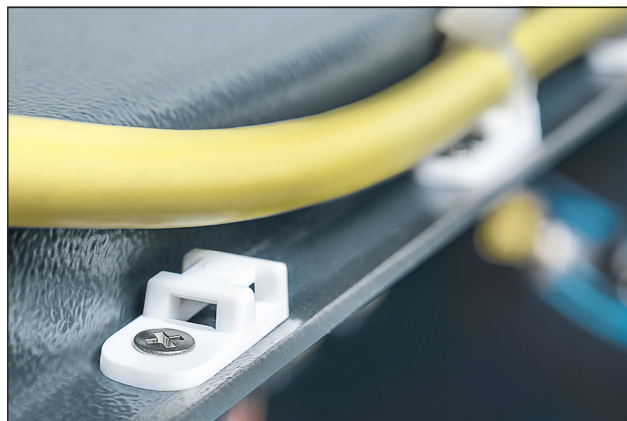

*CTAM mounts for applications with limited space.*

**i** **Can support quality assurance in the production of food stuffs, for example HACCP.**
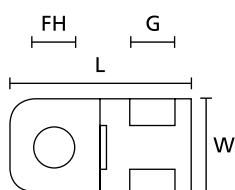

*CTAM-Series (plan view)*
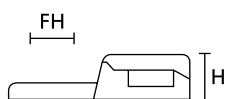

*CTAM-Series (side view)*
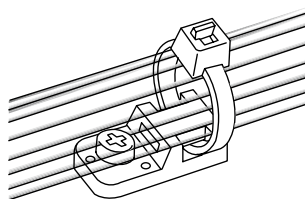

*CTAM-Series in application*


*Application video: PEEK*

| TYPE | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Strap Width max. (G) | Material | Colour | Pack Cont. | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| **CTAM1** | 10.2 | 20.4 | 5.1 | 4.3 | 5.0 | PA66 | White (WH) | 100 pcs. | 151-31103 |
| **CTAM2** | 10.2 | 20.4 | 5.1 | 5.2 | 5.0 | PA66 | White (WH) | 100 pcs. | 151-31203 |
| **CTAM1** | 10.2 | 20.5 | 5.5 | 4.3 | 5.0 | PEEK | Beige (BGE) | 100 pcs. | 151-00757 |
| **CTAM2** | 10.2 | 20.5 | 5.5 | 5.2 | 5.0 | PEEK | Beige (BGE) | 100 pcs. | 151-00758 |
| **MCCTAM1** | 10.3 | 20.7 | 5.1 | 4.3 | 5.0 | PA66MP+ | Blue (BU) | 100 pcs. | 151-00997 |

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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## Screw Fixing Mounts

### LKC- and NY-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 manufacture. They offer a very secure fixing and can be used with a wide variety of heavy duty cable ties up to 13 mm wide.

**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
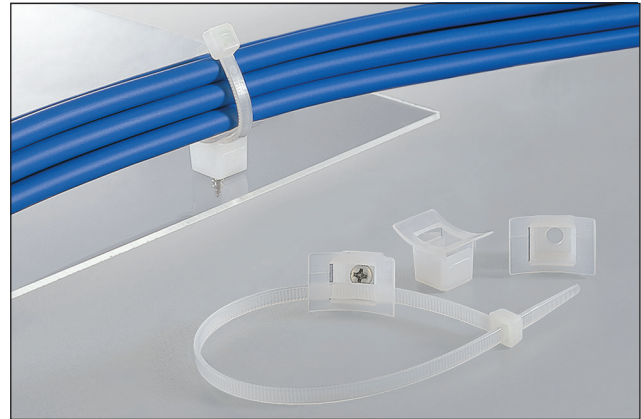
*Cable tie mount LKC-Series.*
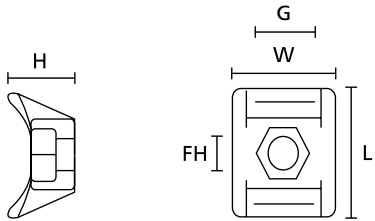
*NY3256 (side view)          NY3256 (plan view)*

| TYPE | Drawing | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Strap Width max. (G) | Material | Colour | Pack Cont. | Article-No. |
|---|---|---|---|---|---|---|---|---|---|---|
| LKC | | 17.0 | 25.0 | 13.5 | 5.5 | 8.0 | PA66 | Black (BK) | 100 pcs. | 151-27010 |
| | | 17.0 | 25.0 | 13.5 | 5.5 | 8.0 | PA66 | Natural (NA) | 100 pcs. | 151-27019 |
| LKCSF1 | | 19.0 | 40.0 | 16.0 | 6.0 | 13.0 | PA66W | Black (BK) | 100 pcs. | 151-01683 |
| | | 19.0 | 40.0 | 16.8 | 6.0 | 13.0 | PA66 | Natural (NA) | 100 pcs. | 151-27219 |
| | | 19.0 | 40.0 | 16.8 | 6.0 | 13.0 | PA66 | Black (BK) | 100 pcs. | 151-27202 |
| NY3256 | | 12.0 | 13.5 | 7.8 | 3.1 | 8.0 | PA66 | Natural (NA) | 1,000 pcs. | 151-25219 |

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

## Harness Clip for Heavy Duty Applications, for Screws or threaded Bolts

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 argriculture 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.*

### Standard Torque Mounts

| TYPE | Drawing | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Strap Width max. (G) | Material | Colour | Pack Cont. | Article-No. |
|------|---------|-----------|-----------|-----------|-------------|----------------------|----------|--------|------------|-------------|
| HDM19 | | 19.3 | 36.3 | 16.7 | 4.7 | 12.7 | PA66HIRHSUV | Black (BK) | 100 pcs. | 151-00134 |
| HDM25 | | 19.3 | 36.3 | 16.7 | 6.2 | 12.7 | PA66HIRHSUV | Black (BK) | 100 pcs. | 151-00437 |
| HDM312 | | 19.3 | 36.3 | 16.7 | 7.8 | 12.7 | PA66HIRHSUV | Black (BK) | 100 pcs. | 151-00439 |

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

### Medium Torque Mounts

| TYPE | Drawing | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Strap Width max. (G) | Material | Colour | Pack Cont. | Article-No. |
|------|---------|-----------|-----------|-----------|-------------|----------------------|----------|--------|------------|-------------|
| HDM321 | | 24.0 | 46.0 | 20.7 | 8.31 | 12.7 | PA66HIRHSUV | Black (BK) | 500 pcs. | 151-07100 |
| HDM401 | | 24.0 | 46.0 | 20.7 | 10.29 | 12.7 | PA66HIRHSUV | Black (BK) | 500 | 151-07300 |
| HDM501 | | 24.0 | 46.0 | 20.7 | 12.7 | 12.7 | PA66HIRHSUV | Black (BK) | 500 pcs. | 151-07500 |

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

**High Torque Mounts**

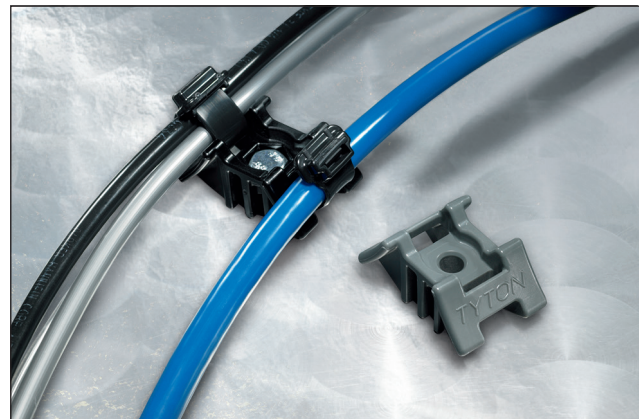| TYPE | Drawing | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Strap Width max. (G) | Material | Colour | Pack Cont. | Article-No. |
|---|---|---|---|---|---|---|---|---|---|---|
| HDM320 | | 25.0 | 47.0 | 20.7 | 8.31 | 12.7 | PA66HIRHSUV | Black (BK) | 500 | 151-02094 |
| HDM400 | | 25.0 | 47.0 | 20.7 | 10.29 | 12.7 | PA66HIRHSUV | Black (BK) | 500 pcs. | 151-01224 |
| HDM500 | | 25.0 | 47.0 | 20.7 | 12.7 | 12.7 | PA66HIRHSUV | Black (BK) | 500 | 151-02096 |
| HDM375BDM4W | | 35.6 | 89.0 | 25.2 | 10.29 | 12.7 | PA66HIRHSUV | Black (BK) | 100 | 151-02104 |

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

## Two Way Saddle Mount for heavy duty applications, for parallel separation

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
- Made from impact modified, heat stabilized material

*This saddle mount is installed between two bundles to separate them and prevent chafing and wear.*
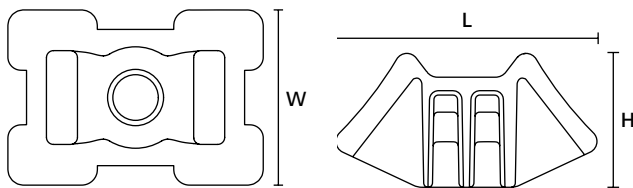
S2CM25

| TYPE | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Strap Width max. (G) | Bundle Ø max. | Material | Colour | Pack Cont. | Article-No. |
|---|---|---|---|---|---|---|---|---|---|---|
| S2CM25 | 30.0 | 45.0 | 23.0 | 6.0 | 12.7 | 89.0 | PA66HIRHS | Grey (GY) | 500 pcs. | 151-29400 |
| S2HM25 | 30.0 | 45.0 | 23.0 | 6.0 | 12.7 | 89.0 | PA66HIRHSUV | Black (BK) | 500 pcs. | 151-29403 |

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

## 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.*

> **i  All Ratchet P-Clamps are also available with stainless steel mounting plate.**
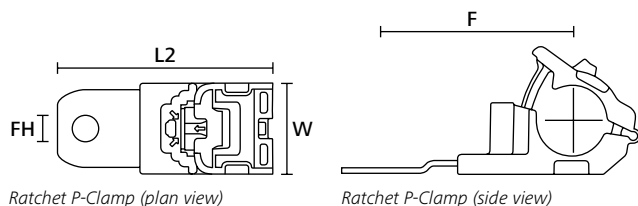
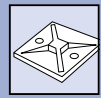*Ratchet P-Clamp (plan view)*

*Ratchet P-Clamp (side view)*

*Application video:
Ratchet P-Clamp*

**For bundle diameters from 6.2 mm to 13.7 mm**

| TYPE | Width (W) | Length (L2) | Bundle Ø min. | Bundle Ø max. | Hole Ø (FH) | Fixing Hole Centres (F) | Variant | Material | Colour | Article-No. |
|---|---|---|---|---|---|---|---|---|---|---|
| RCA90SM6 | 34.9 | 68.8 | 6.2 | 13.7 | 6.5 | 24.9 | Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01643 |
| RCA180SM6 | 34.9 | 83.1 | 6.2 | 13.7 | 6.5 | 50.5 | Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01637 |
| RCA180SM8 | 34.9 | 83.1 | 6.2 | 13.7 | 8.31 | 50.5 | Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01416 |
| RCA180SM10 | 34.9 | 83.1 | 6.2 | 13.7 | 10.29 | 50.5 | Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01417 |
| RCA180SM12 | 34.9 | 83.1 | 6.2 | 13.7 | 12.95 | 50.5 | Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01418 |
| RCA90LM6 | 34.9 | 96.8 | 6.2 | 13.7 | 6.5 | 24.9 | Long | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01644 |
| RCA90LM8 | 34.9 | 96.8 | 6.2 | 13.7 | 8.31 | 24.9 | Long | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01437 |
| RCA180MM6 | 34.9 | 105.1 | 6.2 | 13.7 | 6.5 | 72.5 | Medium | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01638 |
| RCA180MM8 | 34.9 | 105.1 | 6.2 | 13.7 | 8.31 | 72.5 | Medium | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01419 |
| RCA180LM6 | 34.9 | 134.1 | 6.2 | 13.7 | 6. 5 | 101.5 | Long | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01639 |

All dimensions in mm. Subject to technical changes.

## Ratchet P-Clamp

**For bundle diameters from 12.7 mm to 19.5 mm**

| TYPE | Width (W) | Length (L2) | Bundle Ø min. | Bundle Ø max. | Hole Ø (FH) | Fixing Hole Centres (F) | Variant | Material | Colour | Article-No. |
|---|---|---|---|---|---|---|---|---|---|---|
| RCB90SM6 | 34.9 | 68.8 | 12.7 | 19.5 | 6.5 | 26.7 | Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01651 |
| RCB90SM8 | 34.9 | 68.8 | 12.7 | 19.5 | 8.31 | 26.7 | Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01457 |
| RCB180SM6 | 34.9 | 83.1 | 12.7 | 19.5 | 6.5 | 52.8 | Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01645 |
| RCB180SM8 | 34.9 | 83.1 | 12.7 | 19.5 | 8.31 | 52.8 | Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01440 |
| RCB180SM10 | 34.9 | 83.1 | 12.7 | 19.5 | 10.29 | 52.8 | Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01390 |
| RCB180SM12 | 34.9 | 83.1 | 12.7 | 19.5 | 12.95 | 52.8 | Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01441 |
| RCB90LM6 | 34.9 | 96.8 | 12.7 | 19.5 | 6.5 | 26.7 | Long | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01652 |
| RCB90LM8 | 34.9 | 96.8 | 12.7 | 19.5 | 8.31 | 26.7 | Long | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01460 |
| RCB180MM6 | 34.9 | 105.1 | 12.7 | 19.5 | 6.5 | 74.8 | Medium | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01646 |
| RCB180LM6 | 34.9 | 134.1 | 12.7 | 19.5 | 6.5 | 103.8 | Long | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01647 |

All dimensions in mm. Subject to technical changes.

**For bundle diameters from 19.4 mm to 36.0 mm**

| TYPE | Width (W) | Length (L2) | Bundle Ø min. | Bundle Ø max. | Hole Ø (FH) | Fixing Hole Centres (F) | Variant | Material | Colour | Article-No. |
|---|---|---|---|---|---|---|---|---|---|---|
| RCC90SM6 | 34.9 | 101.2 | 19.4 | 36.0 | 6.5 | 39.9 | Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01659 |
| RCC90SM8 | 34.9 | 101.2 | 19.4 | 36.0 | 8.31 | 39.9 | Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01492 |
| RCC180SM6 | 34.9 | 103.0 | 19.4 | 36.0 | 6.5 | 62.3 | Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01653 |
| RCC180SM8 | 34.9 | 103.0 | 19.4 | 36.0 | 8.31 | 62.3 | Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01474 |
| RCC180SM10 | 34.9 | 103.0 | 19.4 | 36.0 | 10.29 | 62.3 | Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01475 |
| RCC180SM12 | 34.9 | 103.0 | 19.4 | 36.0 | 12.95 | 62.3 | Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01476 |
| RCC180MM6 | 34.9 | 125.0 | 19.4 | 36.0 | 6.5 | 84.3 | Medium | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01654 |
| RCC90LM6 | 34.9 | 129.2 | 19.4 | 36.0 | 6.5 | 39.9 | Long | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01660 |
| RCC90LM8 | 34.9 | 129.2 | 19.4 | 36.0 | 8.31 | 39.9 | Long | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01495 |
| RCC180LM6 | 34.9 | 154.0 | 19.4 | 36.0 | 6.5 | 113.3 | Long | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01655 |

All dimensions in mm. Subject to technical changes.

**For bundle diameters from 36.0 mm to 51.0 mm**

| TYPE | Width (W) | Length (L2) | Bundle Ø min. | Bundle Ø max. | Hole Ø (FH) | Fixing Hole Centres (F) | Variant | Material | Colour | Article-No. |
|---|---|---|---|---|---|---|---|---|---|---|
| RCD180SM8 | 34.9 | 115.5 | 36.0 | 51.0 | 8,31 | 70.0 | Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01499 |
| RCD180SM10 | 34.9 | 115.5 | 36.0 | 51.0 | 10,29 | 70.0 | Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01501 |
| RCD180SM12 | 34.9 | 115.5 | 36.0 | 51.0 | 12,95 | 70.0 | Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01502 |
| RCD90LM8 | 34.9 | 116.7 | 36.0 | 51.0 | 8,31 | 42.4 | Long | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01521 |

All dimensions in mm. Subject to technical changes.

**Accessories**

| TYPE | Variant | Material | Colour | Article-No. |
|---|---|---|---|---|
| RCTT | No Serration | PA66HIRHSUV | Black (BK) | 151-01529 |
| RCINSERTA | Rubber profile | TPE | Black (BK) | 151-01530 |
| RCINSERTB | Rubber profile | TPE | Black (BK) | 151-01531 |
| RCINSERTC | Rubber profile | TPE | Black (BK) | 151-01532 |
| RCINSERTD | Rubber profile | TPE | Black (BK) | 151-01533 |

All dimensions in mm. Subject to technical changes.

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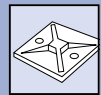
## Plastic P-Clamps

### 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.*
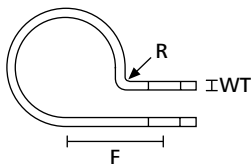
*P-Clamp H1P - H18P (side view)*          *P-Clamp H1P - H18P (plan view)*

| TYPE | Width (W) | Wall (WT) | Hole Ø (FH) | Bundle Ø max. | Fixing Hole Centres (F) | Radius (R) | Material | Colour | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| H1P | 10.0 | 0.80 | 4.2 | 3.2 | 8.5 | 0.5 | PA66 | Natural (NA) | 211-60019 |
| | 10.0 | 0.80 | 4.2 | 3.2 | 8.5 | 0.5 | PA66HS | Black (BK) | 211-60000 |
| H2P | 10.0 | 1.00 | 4.2 | 5.0 | 9.5 | 1.0 | PA66 | Natural (NA) | 211-60029 |
| | 10.0 | 1.00 | 4.2 | 5.0 | 9.5 | 1.0 | PA66HS | Black (BK) | 211-60001 |
| H3P | 10.0 | 1.00 | 4.2 | 6.5 | 10.0 | 1.0 | PA66 | Natural (NA) | 211-60039 |
| | 10.0 | 1.00 | 4.2 | 6.5 | 10.0 | 1.0 | PA66HS | Black (BK) | 211-60002 |
| H4P | 10.0 | 1.20 | 4.2 | 8.0 | 10.0 | 1.0 | PA66 | Natural (NA) | 211-60049 |
| | 10.0 | 1.20 | 4.2 | 8.0 | 10.0 | 1.0 | PA66HS | Black (BK) | 211-60003 |
| H5P | 10.0 | 1.20 | 4.2 | 9.5 | 11.0 | 1.0 | PA66 | Natural (NA) | 211-60059 |
| | 10.0 | 1.20 | 4.2 | 9.5 | 11.0 | 1.0 | PA66HS | Black (BK) | 211-60004 |
| H6P | 10.0 | 1.20 | 4.2 | 11.0 | 13.0 | 1.0 | PA66 | Natural (NA) | 211-60069 |
| | 10.0 | 1.20 | 4.2 | 11.0 | 13.0 | 1.0 | PA66HS | Black (BK) | 211-60005 |
| H7P | 10.0 | 1.20 | 4.2 | 12.5 | 14.0 | 1.5 | PA66 | Natural (NA) | 211-60079 |
| | 10.0 | 1.20 | 4.2 | 12.5 | 14.0 | 1.5 | PA66HS | Black (BK) | 211-60006 |
| H8P | 10.0 | 1.50 | 4.2 | 14.0 | 15.0 | 1.5 | PA66 | Natural (NA) | 211-60089 |
| | 10.0 | 1.50 | 4.2 | 14.0 | 15.0 | 1.5 | PA66HS | Black (BK) | 211-60007 |
| H9P | 10.0 | 1.50 | 4.2 | 16.0 | 16.0 | 1.5 | PA66 | Natural (NA) | 211-60099 |
| | 10.0 | 1.50 | 4.2 | 16.0 | 16.0 | 1.5 | PA66HS | Black (BK) | 211-60008 |
| H10P | 10.0 | 1.50 | 4.2 | 17.5 | 17.0 | 1.5 | PA66 | Natural (NA) | 211-60109 |
| | 10.0 | 1.50 | 4.2 | 17.5 | 17.0 | 1.5 | PA66HS | Black (BK) | 211-60009 |
| H11P | 10.0 | 1.50 | 4.2 | 19.0 | 18.0 | 2.0 | PA66 | Natural (NA) | 211-60119 |
| H12P | 10.0 | 1.50 | 4.2 | 20.5 | 19.0 | 2.0 | PA66 | Natural (NA) | 211-60129 |
| H13P | 12.0 | 1.50 | 5.2 | 22.0 | 20.5 | 2.0 | PA66 | Natural (NA) | 211-60139 |
| H14P | 12.0 | 1.50 | 5.2 | 24.0 | 21.5 | 2.0 | PA66 | Natural (NA) | 211-60149 |
| H15P | 12.0 | 1.50 | 5.2 | 25.5 | 23.0 | 2.5 | PA66 | Natural (NA) | 211-60159 |
| H16P | 12.0 | 1.50 | 5.2 | 28.5 | 24.0 | 2.5 | PA66 | Natural (NA) | 211-60169 |
| H17P | 12.0 | 1.50 | 5.2 | 31.5 | 26.0 | 2.5 | PA66 | Natural (NA) | 211-60179 |
| H18P | 12.0 | 1.50 | 5.2 | 35.0 | 27.5 | 2.5 | PA66 | Natural (NA) | 211-60189 |

All dimensions in mm. Subject to technical changes.

**HellermannTyton**

## 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.
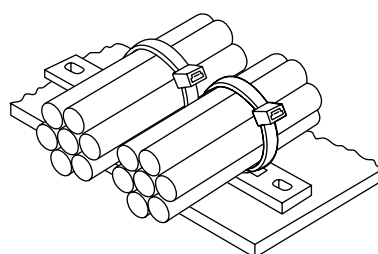
**Features and benefits**
- Allow multiple cables to run in parallel
- Simple to fix with two screws
- Cables are fixed by using a cable tie through any combination of the available slots
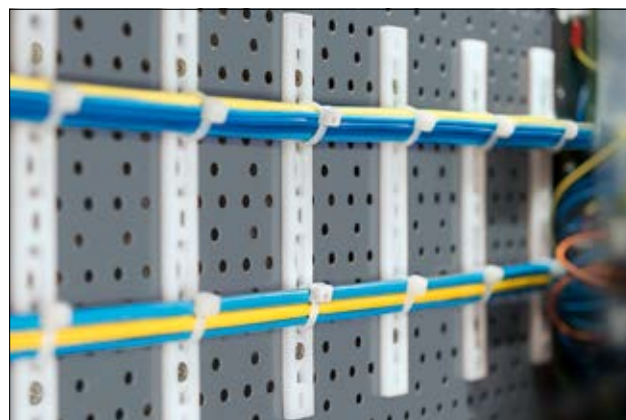
*Screwable mounting plate MSMP.*
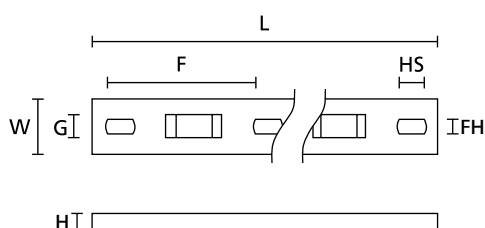
*Mounting plates MP and MSMP
(plan and side view)*

*Mounting plates in application*

| TYPE | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Strap Width max. (G) | No. of bundles | Material | Colour | Pack Cont. | Article-No. |
|------|-----------|------------|------------|-------------|----------------------|----------------|----------|--------|------------|-------------|
| MP2M3 | 12.7 | 76.2 | 3.2 | 3.7 | 5.2 | 2 | PA66 | Natural (NA) | 100 pcs. | 151-24219 |
| MP3M3 | 12.7 | 108.0 | 3.2 | 3.7 | 5.2 | 3 | PA66 | Natural (NA) | 100 pcs. | 151-24319 |
| MP4M3 | 12.7 | 139.8 | 3.2 | 3.7 | 5.2 | 4 | PA66 | Natural (NA) | 100 pcs. | 151-24419 |
| MP5M3 | 12.7 | 171.6 | 3.2 | 3.7 | 5.2 | 5 | PA66 | Natural (NA) | 100 pcs. | 151-24519 |
| MSMP5/10 | 15.8 | 204.5 | 5.3 | 5.1 | 7.6 | 5 | PA66 | Natural (NA) | 100 pcs. | 151-25519 |
| MSMP6/6 | 15.8 | 244.0 | 5.3 | 3.8 | 7.6 | 6 | PA66 | Natural (NA) | 100 pcs. | 151-25619 |
| MSMP4 | 15.9 | 167.0 | 5.2 | 5.1 | 8.2 | 4 | PA66 | Natural (NA) | 500 pcs. | 150-83499 |

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    c ℞ US

## Fixing Base

### LOK-Series

The LOK mounts, in conjunction with a cable tie, can be used either indoors or outdoors for a diverse range of applications from holding climbing plants, to securing cables running between buildings.

**Features and benefits**

- LOK01 - LOK05 usable with any cable ties up to 9 mm wide
- Suitable for a wide range of materials, including concrete, brick, block and wood
- Installed by knocking into 7 mm or 8 mm diameter hole
- LOK01B is designed for soft brickwork and 6 mm holes
- Elongated head of LOK05 for setting bundles at a distance from brickwork
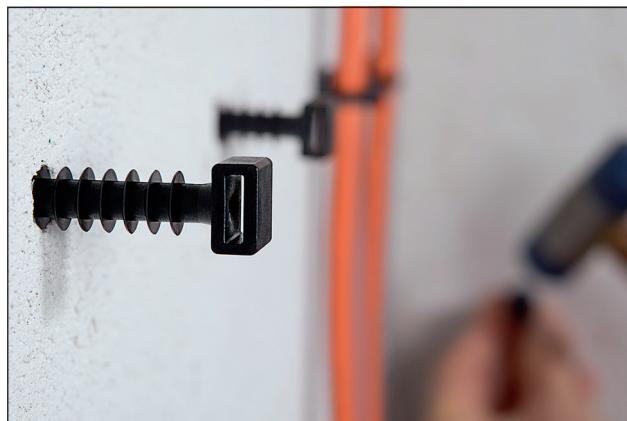
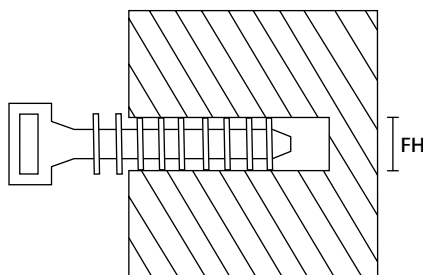*LOK01 fixing bases for indoor and outdoor use.*

**i** **The whole LOK-Series can ideally be combined with cable ties up to 9 mm cable tie width.**
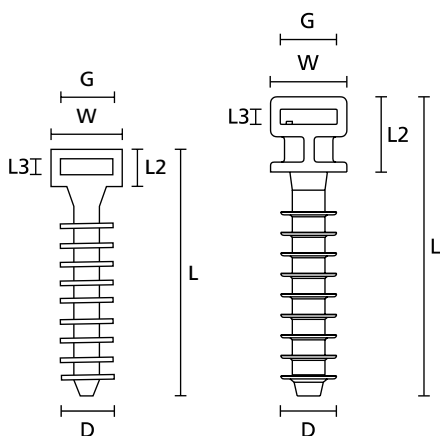
*LOK01 fixing base (front view)*

*LOK05 fixing base (front view)*

*LOK01 pushed into a wall bore hole.*

| TYPE | Width (W) | Length (L) | Length (L2) | Length (L3) | Ø (D) | Strap Width max. (G) | Hole Ø (FH) | Material | Colour | Article-No. |
|------|-----------|------------|-------------|-------------|-------|----------------------|-------------|----------|--------|-------------|
| LOK01B | 12.0 | 30.0 | 6.5 | 2.5 | 7.2 | 9.0 | 6.0 | PA6HIR | Black (BK) | 151-80500 |
| LOK01S | 12.0 | 34.0 | 6.5 | 2.5 | 9.2 | 9.0 | 7.0 - 8.0 | PA6HIR | Black (BK) | 151-80600 |
| LOK01 | 12.0 | 44.0 | 6.5 | 2.5 | 9.2 | 9.0 | 7.0 - 8.0 | PA11 | Black (BK) | 151-01277 |
| | 12.0 | 44.0 | 6.5 | 2.5 | 9.2 | 9.0 | 7.0 - 8.0 | PA6HIR | Black (BK) | 151-80110 |
| LOK05 | 12.0 | 49.0 | 12.5 | 2.5 | 9.2 | 9.0 | 7.0 - 8.0 | PA6HIR | Black (BK) | 151-80700 |

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
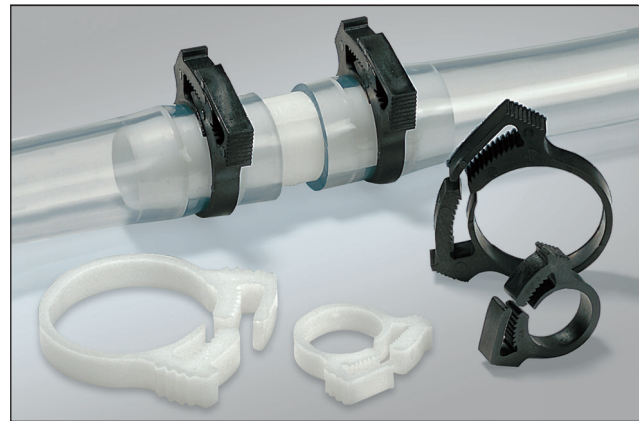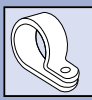
*SNP - Snapper Hose Clips range.*
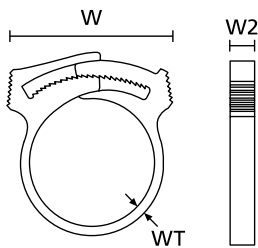
*SNP - Snapper Hose Clip (front view)*

*SNP Clip (side view)*

| TYPE | Bundle Ø min. | Bundle Ø max. | Width (W) min. | Width (W) max. | Width (W2) | Wall (WT) | Material | Colour | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| SNP1 | 6.0 | 6.5 | 8.33 | 11.73 | 3.8 | 1.00 | POM | White (WH) | 190-00022 |
| | 6.0 | 6.8 | 8.40 | 11.70 | 3.8 | 1.00 | PA66GF13 | Black (BK) | 192-10010 |
| SNP1.25 | 7.1 | 7.7 | 10.57 | 12.62 | 3.8 | 1.10 | PA66GF13 | Black (BK) | 190-00029 |
| SNP2(E) | 8.7 | 10.0 | 17.00 | 21.00 | 6.0 | 1.50 | POM | Natural (NA) | 191-10029 |
| SNP2 | 9.3 | 10.5 | 12.20 | 17.60 | 5.9 | 1.70 | PA66GF13 | Black (BK) | 192-10020 |
| SNP3(E) | 10.0 | 11.4 | 19.00 | 25.00 | 6.0 | 1.80 | POM | Natural (NA) | 191-10039 |
| SNP4 | 10.4 | 11.7 | 13.30 | 19.20 | 5.9 | 1.70 | PA66GF13 | Black (BK) | 192-10040 |
| SNP4(E) | 10.8 | 12.3 | 19.00 | 23.00 | 6.0 | 1.80 | POM | Natural (NA) | 191-10049 |
| SNP7 | 11.4 | 13.7 | 18.40 | 28.50 | 5.9 | 1.70 | PA66GF13 | Black (BK) | 192-10070 |
| SNP6 | 11.7 | 13.3 | 14.70 | 21.60 | 5.9 | 1.70 | PA66GF13 | Black (BK) | 192-10060 |
| SNP6(E) | 12.0 | 13.7 | 19.00 | 24.00 | 6.0 | 1.80 | POM | Natural (NA) | 191-10069 |
| SNP8 | 13.1 | 15.0 | 16.70 | 24.90 | 5.7 | 1.70 | PA66GF13 | Black (BK) | 192-10080 |
| SNP8(E) | 13.7 | 15.3 | 19.00 | 24.00 | 6.0 | 1.80 | POM | Natural (NA) | 191-10089 |
| SNP10 | 14.5 | 16.6 | 17.60 | 26.90 | 5.9 | 1.80 | PA66GF13 | Black (BK) | 192-10100 |
| SNP10(E) | 15.0 | 16.8 | 19.00 | 24.00 | 6.0 | 1.80 | POM | Natural (NA) | 191-10109 |
| SNP12A | 15.6 | 18.3 | 21.00 | 29.90 | 5.9 | 1.80 | PA66GF13 | Black (BK) | 190-00254 |
| SNP12(E) | 16.8 | 18.4 | 19.00 | 24.00 | 6.0 | 1.80 | POM | Natural (NA) | 191-10129 |
| SNP14(E) | 18.1 | 19.9 | 19.00 | 24.00 | 6.0 | 1.80 | POM | Natural (NA) | 191-10149 |
| SNP14A | 18.5 | 21.0 | 20.90 | 30.10 | 5.9 | 1.80 | PA66GF13 | Black (BK) | 190-00300 |
| SNP16 | 19.1 | 21.7 | 19.90 | 30.80 | 5.8 | 1.50 | PA66GF13 | Black (BK) | 192-10160 |
| | 19.9 | 21.7 | 19.00 | 24.00 | 6.0 | 1.90 | POM | Natural (NA) | 191-10169 |
| SNP18A | 19.9 | 23.6 | 24.00 | 35.50 | 5.9 | 1.80 | PA66GF13 | Black (BK) | 190-00258 |
| SNP18(E) | 21.4 | 23.0 | 16.00 | 22.00 | 6.0 | 1.90 | POM | Natural (NA) | 191-10189 |
| SNP19 | 22.3 | 25.3 | 24.40 | 36.10 | 5.9 | 1.70 | PA66GF13 | Black (BK) | 190-00090 |
| SNP20(E) | 22.7 | 24.7 | 20.00 | 26.00 | 6.0 | 1.80 | POM | Natural (NA) | 191-10209 |

All dimensions in mm. Subject to technical changes.

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## Snapper Hose Clips for Tubes and Harnesses
### SNP-Series



SNP - Snapper Hose Clip
(front view)

SNP Clip
(side view)
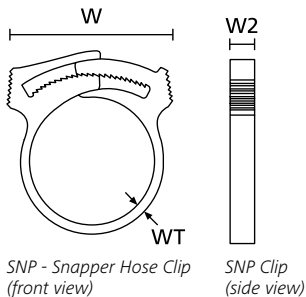
> **i** SNP Snapper are also available on request in material **PA66HS** and **PA46**.

| TYPE | Bundle Ø min. | Bundle Ø max. | Width (W) min. | Width (W) max. | Width (W2) | Wall (WT) | Material | Colour | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| **SNP22** | 23.7 | 27.4 | 23.90 | 37.70 | 6.0 | 1.80 | PA66GF13 | Black (BK) | 192-10220 |
| **SNP22(E)** | 25.3 | 27.3 | 20.00 | 26.00 | 6.0 | 1.60 | POM | Natural (NA) | 191-10229 |
| **SNP24** | 25.8 | 29.2 | 26.50 | 39.40 | 7.3 | 1.70 | PA66GF13 | Black (BK) | 192-10240 |
| | 26.5 | 28.6 | 20.00 | 26.00 | 6.0 | 2.00 | POM | Natural (NA) | 191-10249 |
| **SNP28** | 28.8 | 33.2 | 26.00 | 42.10 | 7.3 | 1.70 | PA66GF13 | Black (BK) | 190-00127 |
| **SNP32(E)** | 30.3 | 33.1 | 27.00 | 34.00 | 7.5 | 2.00 | POM | Natural (NA) | 191-10329 |
| **SNP32** | 31.2 | 35.8 | 27.30 | 44.40 | 7.3 | 1.80 | PA66GF13 | Black (BK) | 192-10320 |
| **SNP34(E)** | 32.5 | 35.1 | 27.00 | 34.00 | 7.5 | 2.00 | POM | Natural (NA) | 191-10349 |
| **SNP36(E)** | 34.8 | 37.1 | 27.00 | 34.00 | 7.5 | 2.00 | POM | Natural (NA) | 191-10369 |
| **SNP38(E)** | 36.7 | 38.9 | 27.00 | 34.00 | 7.5 | 2.00 | POM | Natural (NA) | 191-10389 |
| **SNP36** | 37.8 | 44.0 | 32.41 | 53.80 | 7.3 | 1.70 | PA66GF13 | Black (BK) | 192-10360 |
| **SNP42(E)** | 41.0 | 44.2 | 32.00 | 45.00 | 7.5 | 2.00 | POM | Natural (NA) | 191-10429 |
| **SNP38** | 41.0 | 48.1 | 35.60 | 57.50 | 7.3 | 1.80 | PA66GF13 | Black (BK) | 192-10380 |
| **SNP42** | 44.5 | 52.2 | 35.70 | 59.80 | 7.3 | 1.70 | PA66GF13 | Black (BK) | 191-00005 |
| **SNP50(E)** | 48.8 | 52.0 | 32.00 | 45.00 | 7.5 | 2.00 | POM | Natural (NA) | 191-10509 |
| **SNP50** | 52.2 | 58.6 | 36.50 | 60.40 | 7.3 | 1.70 | PA66GF13 | Black (BK) | 192-10500 |
| **SNP58(E)** | 56.7 | 59.2 | 31.00 | 39.00 | 7.5 | 2.00 | POM | Natural (NA) | 191-10589 |

All dimensions in mm. Subject to technical changes.

## Sleeving

### PVC Sleeving – On a drum

A commercial grade of PVC sleeving which can be used in many applications.

**Features and Benefits**
- Highly flexible insulation
- Can also be used for identification
- Minimum working temperature -30ºC
- Maximum working temperature +85ºC
- Specification: BS2848 Type 3, Class 85T
- Colours available: blue, brown, green/yellow
- Other sizes are available on request
- Supplied on a drum
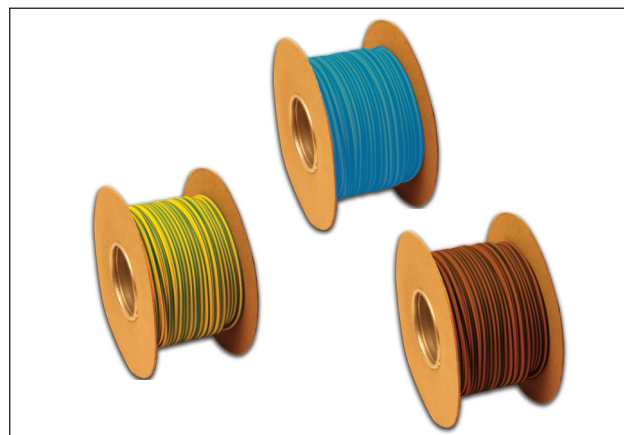
*PVC Sleeving on a drum.*

| TYPE | ID mm | Wall Thickness mm | Colour | Pack Cont. | Article-No. |
|---|---|---|---|---|---|
| PVC20BERL | 2.0 | 0.5 | Blue | 100m drum | 172-02092 |
| PVC20BNRL | 2.0 | 0.5 | Brown | 100m drum | 172-02091 |
| PVC20GN-YWRL | 2.0 | 0.5 | Green-Yellow | 100m drum | 172-02088 |
| PVC30BERL | 3.0 | 0.5 | Blue | 100m drum | 172-02094 |
| PVC30BNRL | 3.0 | 0.5 | Brown | 100m drum | 172-02093 |
| PVC30GN-YWRL | 3.0 | 0.5 | Green-Yellow | 100m drum | 172-02089 |
| PVC40BERL | 4.0 | 0.5 | Blue | 100m drum | 172-02096 |
| PVC40BNRL | 4.0 | 0.5 | Brown | 100m drum | 172-02095 |
| PVC40GN-YWRL | 4.0 | 0.5 | Green-Yellow | 100m drum | 172-02090 |

*All dimensions are in mm (nominal) and are subject to technical modification.*

## Sleeving

### Multi-reel Sleeving – On a drum

A one stop solution for users of PVC sleeving, who want all 3 colours on one handy reel, saves carrying around 3 separate reels of blue, brown and green and yellow.

**Features and Benefits**
- The new PVC multi reel product gives users all 3 colour's needed for the job in one handy reel
- High-grade PVC sleeve in accordance with BS-3858 Type 3, DEF STAN 59-15, IEC 684-3-101/104, UL 224
- Manufactured in Britain
- Maximum working temperature +85ºC
- Highly flexible insulation
- Can also be used for identification

*Multi-reel Sleeving on a drum.*

| TYPE | ID mm | Wall Thickness mm | Colour | Pack Cont. | Article-No. |
|---|---|---|---|---|---|
| PVCMR20 | 2.0 | 0.5 | Blue(20m),Brown(20m), Green & Yellow(60m) | 100m drum | 172-02117 |
| PVCMR30 | 3.0 | 0.5 | Blue(20m),Brown(20m), Green & Yellow(60m) | 100m drum | 172-02118 |
| PVCMR40 | 4.0 | 0.5 | Blue(10m),Brown(10m), Green & Yellow(40m) | 60m drum | 172-02119 |

*All dimensions are in mm (nominal) and are subject to technical modification.*

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## Sleeving

### PVCB Sleeving

A commercial grade of PVC sleeving which has a wide range of uses in automotive and white goods manufacturing. PVCB has good resistant to moisture, oils, acids and fuels.

**Features and Benefits**
- Highly flexible
- Minimum working temperature -65°C
- Maximum working temperature 105°C
- Specification: BS2848 Type 3, Class 105T
- Standard colour black
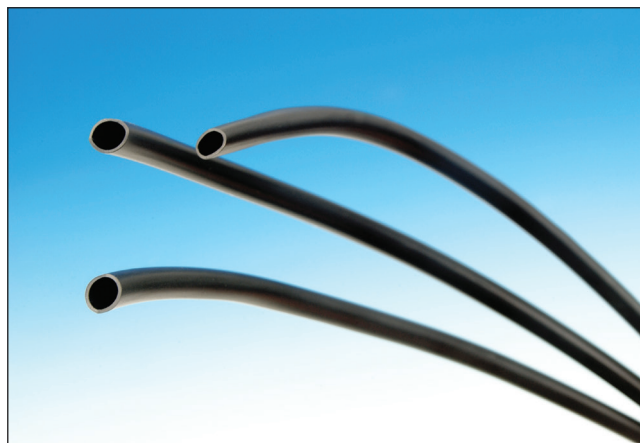
*PVC Sleeving.*
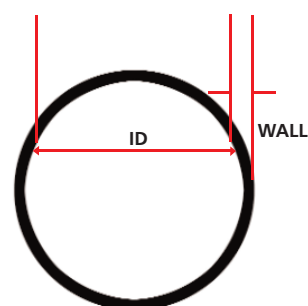
| TYPE | ID mm | Wall Thickness mm | Colour | Pack Cont. | Article No. |
|---|---|---|---|---|---|
| PVCB10BK | 1.0 | 0.5 | Black | 100m coil | 172-00227 |
| PVCB15BK | 1.5 | 0.5 | Black | 100m coil | 172-00051 |
| PVCB20BK | 2.0 | 0.5 | Black | 100m coil | 172-00055 |
| PVCB25BK | 2.5 | 0.5 | Black | 100m coil | - |
| PVCB30BK | 3.0 | 0.5 | Black | 100m coil | 172-00064 |
| PVCB40BK | 4.0 | 0.5 | Black | 100m coil | 172-00072 |
| PVCB50BK | 5.0 | 0.5 | Black | 100m coil | 172-00076 |
| PVCB60BK | 6.0 | 0.5 | Black | 100m coil | 172-00080 |
| PVCB70BK | 7.0 | 0.7 | Black | 100m coil | 172-00084 |
| PVCB80BK | 8.0 | 0.7 | Black | 100m coil | 172-00087 |
| PVCB90BK | 9.0 | 0.7 | Black | 100m coil | 172-00088 |
| PVCB100BK | 10.0 | 0.7 | Black | 100m coil | 172-00043 |
| PVCB120BK | 12.0 | 0.9 | Black | 100m coil | 172-00048 |
| PVCB130BK | 13.0 | 0.9 | Black | 50m coil | 172-00049 |
| PVCB150BK | 15.0 | 0.9 | Black | 50m coil | 172-00052 |
| PVCB200BK | 20 | 0.9 | Black | 50m coil | 172-00058 |
| PVCB250BK | 25 | 0.9 | Black | 25m coil | 172-00061 |

*All dimensions are in mm (nominal) and are subject to technical modification.*
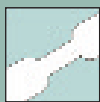
## Heat Shrinkable Tubing

### LVRK Cable Repair Kit

The cable repair kit LVRK is a quick and safe repair of damaged cables and wires, post termination.

**Features and Benefits**

- For cables 1.5mm$^2$ - 2.5mm$^2$
- Fast, safe, durable and labour saving repair of cables and wires
- No set of recessed conduit boxes or inserting lines necessary, therefore offering a cost saving

**Kit Contents**

- 1 x adhesive lined shrink tube 200mm long
- 4:1 shrink ratio
- 5 x butt connectors with heat shrink insulation materials and adhesives
- 4 x heat stabilized Q-tie cable ties, innovative and time saving (thanks to an open tie head)



*LVRK Cable Repair Kit.*

| TYPE | Description | Pack Cont | Article No. |
|---|---|---|---|
| LVRK-24/6-200BK | Cable Repair Kit | 1 | 380-04004 |

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## Helawrap Cable Cover

### HWPP for industrial applications

Helawrap is used to bundle and protect cables and wires in the electrical industry, panel building, machine building and many other industrial applications. Helawrap is the time-saving solution for industrial applications.

**Features and benefits**

- Ideal solution for bundling, protecting and fixing cables
- Quick and effortless to apply
- Good abrasion protection
- Special profile enables branching off cable at any point
- Can be removed and reapplied often
- Available in several colours and sizes
- Handy applicator tool included

*HWPP is commonly used wherever high flexibility is required, such as in the door area of wiring panels.*

| MATERIAL | Polypropylene (PP) |
|---|---|
| **Operating Temperature** | -60 °C to +110 °C, intermittent +140 °C |
| **Flammability** | UL 94 HB |

HF ✓   RoHS ✓

| TYPE | Bundle Ø max. | Colour | Reel Length | Application Tool | Article-No. |
|---|---|---|---|---|---|
| **HWPP8** | 9 | Black (BK) | 25 m | HAT8 | 161-64101 |
| | 9 | Grey (GY) | 25 m | HAT8 | 161-64102 |
| | 9 | Silver (SR) | 25 m | HAT8 | 161-64103 |
| | 9 | White (WH) | 25 m | HAT8 | 161-64104 |
| **HWPP16** | 16 | Black (BK) | 25 m | HAT16 | 161-64201 |
| | 16 | Grey (GY) | 25 m | HAT16 | 161-64202 |
| | 16 | Silver (SR) | 25 m | HAT16 | 161-64203 |
| | 16 | White (WH) | 25 m | HAT16 | 161-64207 |
| **HWPP20** | 21 | Black (BK) | 25 m | HAT20 | 161-64301 |
| | 21 | Grey (GY) | 25 m | HAT20 | 161-64302 |
| | 21 | Silver (SR) | 25 m | HAT20 | 161-64303 |
| | 21 | White (WH) | 25 m | HAT20 | 161-64304 |
| **HWPP25** | 27 | Black (BK) | 25 m | HAT25 | 161-64401 |
| | 27 | Grey (GY) | 25 m | HAT25 | 161-64402 |
| | 27 | Silver (SR) | 25 m | HAT25 | 161-64403 |
| | 27 | White (WH) | 25 m | HAT25 | 161-64407 |
| **HWPP30** | 32 | Black (BK) | 25 m | HAT30 | 161-64501 |
| | 32 | Grey (GY) | 25 m | HAT30 | 161-64502 |
| | 32 | Silver (SR) | 25 m | HAT30 | 161-64503 |
| | 32 | White (WH) | 25 m | HAT30 | 161-64504 |
| **HWPP40** | 42 | Black (BK) | 15 m | HAT40 | 161-64601 |

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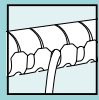
## Helawrap Cable Cover

### HWPP for home and office use

Helawrap HWPP in practical 2 metre lengths is designed for home and office use. It puts an end to the cable chaos of PCs, TVs and Hi-Fi systems.
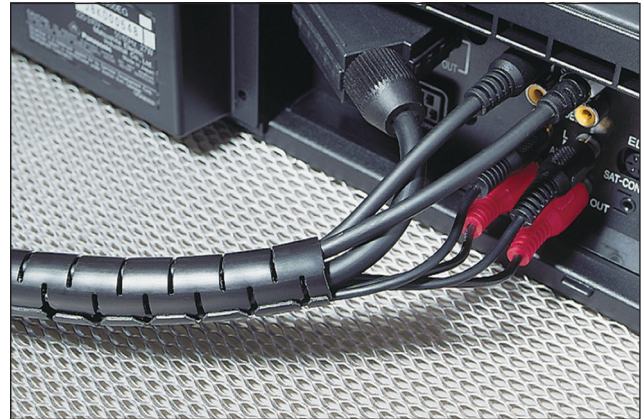


*Complete cable management for home and office.*





*Helawrap HWPP, in practical 2m lengths, is available in 2 sizes and 4 colours.*



*Insert one or more cables into the insertion slot of the applicator tool.*



*Place the HAT applicator tool in one end of the Helawrap cable cover.*



*Simply slide the HAT applicator tool through the Helawrap cover.*

| TYPE | Bundle Ø max. | Colour | Length (L) | Application Tool | Article-No. |
|---|---|---|---|---|---|
| **HWPP16L2** | 16 | Black (BK) | 2 m | HAT16 | 161-64204 |
| | 16 | Grey (GY) | 2 m | HAT16 | 161-64205 |
| | 16 | Silver (SR) | 2 m | HAT16 | 161-64206 |
| | 16 | White (WH) | 2 m | HAT16 | 161-64215 |
| **HWPP25L2** | 27 | Black (BK) | 2 m | HAT25 | 161-64404 |
| | 27 | Grey (GY) | 2 m | HAT25 | 161-64405 |
| | 27 | Silver (SR) | 2 m | HAT25 | 161-64406 |
| | 27 | White (WH) | 2 m | HAT25 | 161-64415 |

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

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## Cable Cover, Material: PA6, UL94V0

### Helawrap HWPA-V0

Helawrap HWPAV0 is used to bundle and protect cable and wires, especially there is vibration and abrasion. HWPAV0 has excellent flame-retardant properties and is halogen-free.

**Features and benefits**

- Ideal solution for bundling, protecting and fixing cables
- Quick and effortless to apply
- Self-extinguishing according to UL94 V0
- Very good abrasion protection
- Special profile enables branching off cable at any point
- Can be removed and reapplied often
- Available in several colours and sizes
- Handy applicator tool included
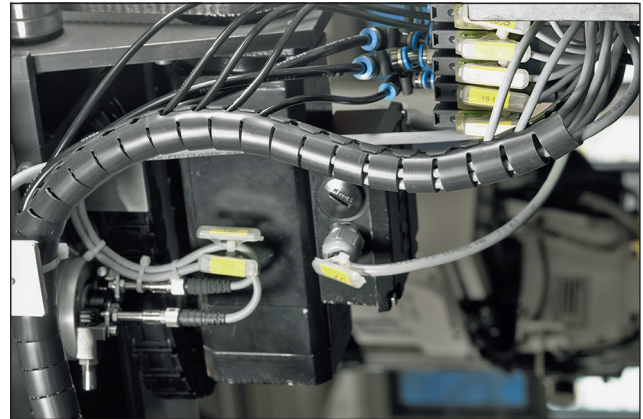


*Cables can be branched off at any point for better, more flexible protection.*

| MATERIAL | Polyamide 6 V0 (PA6V0) |
|---|---|
| **Operating Temperature** | -40 °C to +90 °C, intermittent +120 °C |
| **Flammability** | UL 94 V0 |
| **EN 45545-2 Classification** | R22 HL2, R23 HL2 |

HF ✓    RoHS ✓

| TYPE | Bundle Ø max. | Colour | Reel Length | Application Tool | Article-No. |
|---|---|---|---|---|---|
| HWPAV08 | 9 | Black (BK) | 25 m | HAT8 | 161-63101 |
| HWPAV016 | 16 | Black (BK) | 25 m | HAT16 | 161-63201 |
| HWPAV020 | 21 | Black (BK) | 25 m | HAT20 | 161-63301 |
| HWPAV025 | 27 | Black (BK) | 25 m | HAT25 | 161-63401 |
| HWPAV030 | 32 | Black (BK) | 25 m | HAT30 | 161-63501 |

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



EN 45545-2   UL

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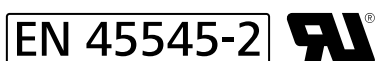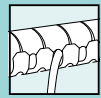
## Acessories for retaining Helawrap Open Cable Cover

### HWClips

Helawrap clips and mounting plates can be linked to mount and route Helawrap cable covers in wiring cabinets and machines as well as in the iin the office or home.

**Features and benefits**
- Mounts and routes Helawrap cable cover flexibly and efficiently
- Fit snugly around the cable cover and holds it tight
- Each clip can be joined to mounting plate or other clips of any size
- Each clip rotates freely
- Easily released and re-used
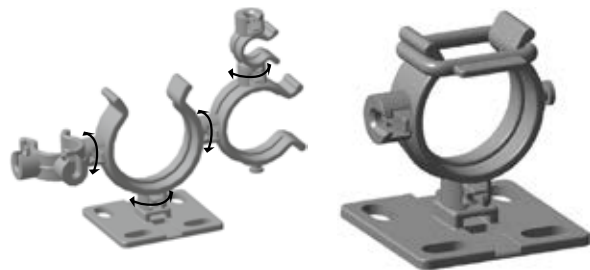- Mounting plates fixed with screws, cable ties or adhesive
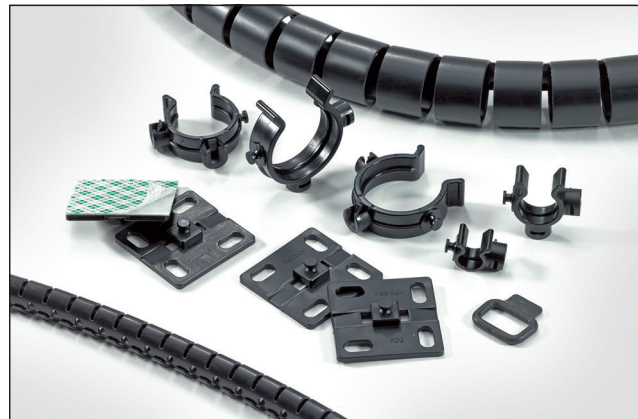


*The Helawrap accessory set for bundling, fixing and protecting multiple cable runs.*

| MATERIAL | Polyamide 6.6, high impact modified, heat stabilised (PA66HIRHS) | Flexible Polyvinyl Chloride, cadmium free (PVC) |
|---|---|---|
| Operating Temperature | -40 °C to +105 °C | -35 °C to +50 °C |
| Flammability | UL 94 HB | UL 94 V2 |

HF ✓      RoHS ✓

RoHS ✓



*Multiple clips can be joined. Clips swivel freely.*



*For secure hold, R1 loop can be used (for HWClip25 and HWClip30 only).*

| TYPE | for Helawrap size | Material | Colour | Article-No. |
|---|---|---|---|---|
| HWCLIP08 | 8 | PA66HIRHS | Black (BK) | 161-64002 |
| HWCLIP16 | 16 | PA66HIRHS | Black (BK) | 161-64004 |
| HWCLIP20 | 20 | PA66HIRHS | Black (BK) | 161-64006 |
| HWCLIP25 | 25 | PA66HIRHS | Black (BK) | 161-64008 |
| HWCLIP30 | 30 | PA66HIRHS | Black (BK) | 161-64010 |
| R1 | 25, 30 | PVC | Black (BK) | 201-20010 |

Subject to technical changes.

### HWBase

**Features and benefits**
- Mounting plates can be fixed with screws, cable ties or adhesive
- Can be used to mount any size HWClip
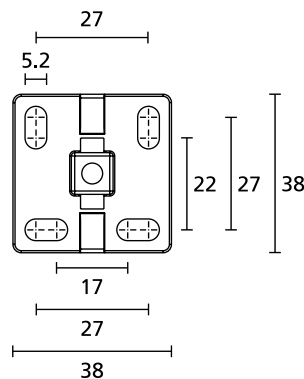


*Helawrap HWBase/HWBaseA*

| TYPE | Adhesive | Colour | Article-No. |
|---|---|---|---|
| HWBASE | - | Black (BK) | 161-64014 |
| HWBASEA | Acrylate with base of polyurethane foam | Black (BK) | 161-64012 |

All dimensions in mm. Subject to technical changes.

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## Application Tools for Helawrap Cable Cover

### HAT Tools

The HAT application tools are used with Helawrap HWPP, HWPAV0 and HWPPMC cable covers to bundle and protect cables rapidly and efficiently. There is a specially designed HAT application tool for each size Helawarp cable cover.

**Features and benefits**
- Bundle cable rapidly and effortlessly
- Glides smoothly and securely through cover
- Easy insertion of cable



*Applicator tools HAT are available for every Helawrap cover size.*

| TYPE | Colour | Pack Cont. | Article-No. |
|------|--------|-----------|-------------|
| HAT8 | Blue (BU) | 10 pcs. | 161-60001 |
| HAT16 | Blue (BU) | 10 pcs. | 161-60002 |
| HAT20 | Blue (BU) | 10 pcs. | 161-60003 |
| HAT25 | Blue (BU) | 10 pcs. | 161-60004 |
| HAT30 | Blue (BU) | 10 pcs. | 161-60005 |
| HAT40 | Blue (BU) | 5 pcs. | 161-60006 |

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

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## Standard Polyethylene Spiral Binding for general applications

### SBPE

SBPE spiral binding is suitable for standard electrical applications and panel building and plant engineering. Sizes 4 and 9 are also available in practical 5 metre lengths.
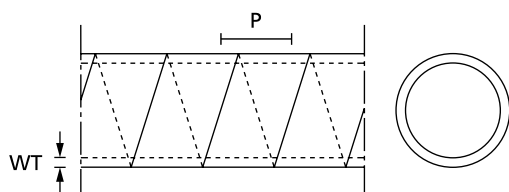
**Features and benefits**

- Organises and protects cables and hoses
- Suitable for retro-fitting
- Cables branch out at any point
- Wide range of diameters and colours
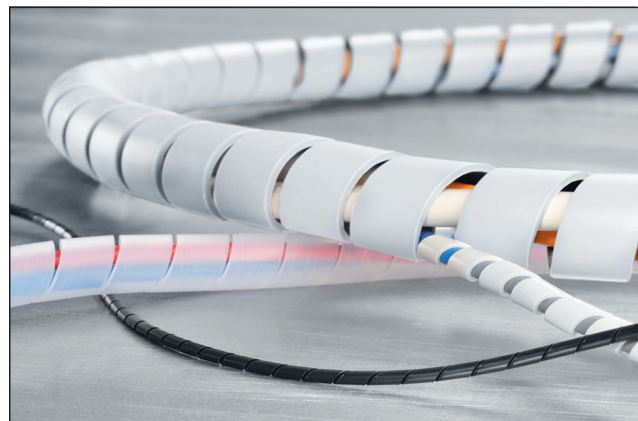
*Spiral binding SBPE.*

| MATERIAL | Polyethylene (PE) |
|---|---|
| **Operating Temperature** | -60 °C to +80 °C, intermittent +120 °C |
| **Flammability** | UL 94 HB |

HF ✓   RoHS ✓

*Spiral binding*

| TYPE | Nominal Ø | Wall (WT) | Pitch (P) | Bundle Ø min. | Bundle Ø max. | Colour | Reel Length | Article-No. |
|---|---|---|---|---|---|---|---|---|
| **SBPE1.5** | 1.5 | 0.8 | 6.0 | 1.6 | 8 | Black (BK) | 30 m | 161-41001 |
| | 1.5 | 0.8 | 6.0 | 1.6 | 8 | Grey (GY) | 30 m | 161-41002 |
| | 1.5 | 0.8 | 6.0 | 1.6 | 8 | Natural (NA) | 30 m | 161-41000 |
| **SBPE4** | 4 | 1.0 | 7.8 | 5 | 20 | Black (BK) | 30 m | 161-41101 |
| | 4 | 1.0 | 7.8 | 5 | 20 | Grey (GY) | 30 m | 161-41102 |
| | 4 | 1.0 | 7.8 | 5 | 20 | Natural (NA) | 30 m | 161-41100 |
| **SBPE9** | 9 | 1.4 | 12.5 | 10 | 100 | Black (BK) | 30 m | 161-41201 |
| | 9 | 1.4 | 12.5 | 10 | 100 | Grey (GY) | 30 m | 161-41202 |
| | 9 | 1.4 | 12.5 | 10 | 100 | Natural (NA) | 30 m | 161-41200 |
| **SBPE16** | 16 | 1.6 | 16.0 | 20 | 150 | Black (BK) | 30 m | 161-41301 |
| | 16 | 1.6 | 16.0 | 20 | 150 | Grey (GY) | 30 m | 161-41302 |
| | 16 | 1.6 | 16.0 | 20 | 150 | Natural (NA) | 30 m | 161-41300 |

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

| TYPE | Nominal Ø | Wall (WT) | Pitch (P) | Bundle Ø min. | Bundle Ø max. | Colour | Reel Length | Article-No. |
|---|---|---|---|---|---|---|---|---|
| **SBPE4D** | 4 | 1.0 | 7.8 | 5 | 20 | Black (BK) | 5 m | 161-41104 |
| | 4 | 1.0 | 7.8 | 5 | 20 | Grey (GY) | 5 m | 161-41105 |
| | 4 | 1.0 | 7.8 | 5 | 20 | Natural (NA) | 5 m | 161-41103 |
| **SBPE9D** | 9 | 1.4 | 12.5 | 10 | 100 | Black (BK) | 5 m | 161-41204 |
| | 9 | 1.4 | 12.5 | 10 | 100 | Grey (GY) | 5 m | 161-41205 |
| | 9 | 1.4 | 12.5 | 10 | 100 | Natural (NA) | 5 m | 161-41203 |

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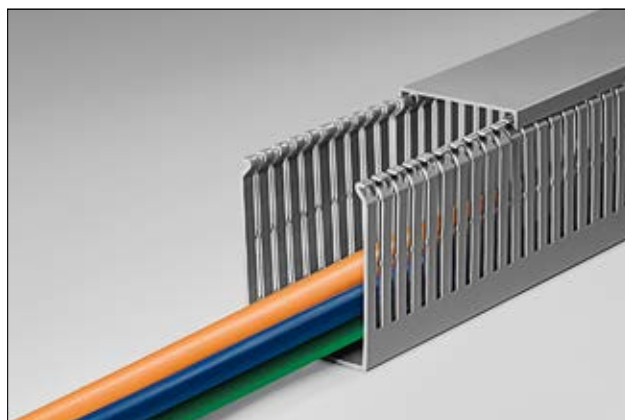
HellermannTyton

## Rigid PVC wiring ducts

### HelaDuct HTWD-PN for small-diameter wires

T1E wiring ducts are used in control panels, switching systems, and especially electronic control systems.

**Features and benefits**

- Narrow slots suitable for small-diameter wires
- Smooth, burr-free edges protect installers from injury and wires from damage
- Fingers can be removed with no sharp edges at pre-notched snap-off points
- Further pre-notched snap-off point at base of sidewall allow cutting out and removing sections of sidewall with no sharp edges
- Raised mounting points for easily and securely fastening wire retainers and other accessores prior to cabling
- Wire retainers and accessories leave no protruding parts below surface of duct
- Duct covers are easy to mount and remove, yet hold securely even in a vertical position and under vibration
- Cover is flush with side of duct, allowing for tight, contiguous placement of ducts
- Additional retainer nub on fingers on ducts height 80 and above to prevent cables from slipping
- Base perforation according to DIN EN 50085



*HTWD-PN wiring ducts with narrow fingers and slots for small-diameter wires.*

| MATERIAL | Polyvinylchloride (PVC) |
|---|---|
| Colour | Grey (GY) |
| Length (L) | 2 m |
| Operating Temperature | -5 °C to +65 °C |
| Flammability | UL 94 V0 |

**RoHS** ✓

### HTWD-PN wiring ducts base perforation according to DIN EN 50085



*Width 25*    *Width 40-60*    *Width 80-120*    *Hole dimensions*

**HellermannTyton**
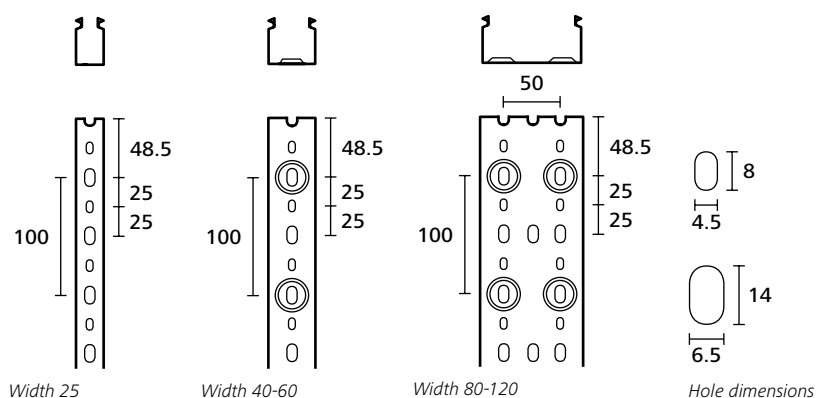
## Rigid PVC wiring ducts

**HelaDuct HTWD-PN for small-diameter wires**
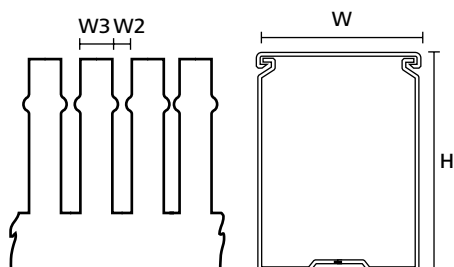
*Wiring duct HTWD-PN*

| TYPE | Width (W) | Height (H) | Width (W2) | Width (W3) | Pack Cont. | Article-No. |
|---|---|---|---|---|---|---|
| HTWD-PN-25X40 | 25 | 40 | 4 | 6 | 72 m | 184-10068 |
| HTWD-PN-25X60 | 25 | 60 | 4 | 6 | 48 m | 184-10138 |
| HTWD-PN-25X80 | 25 | 80 | 4 | 6 | 48 m | 184-10198 |
| HTWD-PN-40X40 | 40 | 40 | 4 | 6 | 40 m | 184-10078 |
| HTWD-PN-40X60 | 40 | 60 | 4 | 6 | 36 m | 184-10148 |
| HTWD-PN-40X80 | 40 | 80 | 4 | 6 | 32 m | 184-10208 |
| HTWD-PN-40X100 | 40 | 100 | 4 | 6 | 16 m | 184-10258 |
| HTWD-PN-60X40 | 60 | 40 | 4 | 6 | 24 m | 184-10088 |
| HTWD-PN-60X60 | 60 | 60 | 4 | 6 | 24 m | 184-10158 |
| HTWD-PN-60X80 | 60 | 80 | 4 | 6 | 24 m | 184-10218 |
| HTWD-PN-60X100 | 60 | 100 | 4 | 6 | 8 m | 184-10268 |
| HTWD-PN-80X40 | 80 | 40 | 4 | 6 | 24 m | 184-10098 |
| HTWD-PN-80X60 | 80 | 60 | 4 | 6 | 24 m | 184-10168 |
| HTWD-PN-80X80 | 80 | 80 | 4 | 6 | 24 m | 184-10228 |
| HTWD-PN-80X100 | 80 | 100 | 4 | 6 | 8 m | 184-10329 |
| HTWD-PN-100X40 | 100 | 40 | 4 | 6 | 16 m | 184-10108 |
| HTWD-PN-100X60 | 100 | 60 | 4 | 6 | 16 m | 184-10178 |
| HTWD-PN-100X80 | 100 | 80 | 4 | 6 | 16 m | 184-10238 |
| HTWD-PN-100X100 | 100 | 100 | 4 | 6 | 8 m | 184-10278 |
| HTWD-PN-120X60 | 120 | 60 | 4 | 6 | 16 m | 184-10188 |
| HTWD-PN-120X80 | 120 | 80 | 4 | 6 | 16 m | 184-10248 |

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

## Rigid PVC wiring ducts

### HelaDuct HTWD-PW for large-diameter wires

T1 wiring ducts are used in control panels and switching systems, particularly for wires with large diameters.

**Features and benefits**

- Wide slots suitable for large-diameter wires
- Wide fingers provide additional wire support
- Smooth, burr-free edges protect installers from injury and wires from damage
- Fingers can be removed with no sharp edges at pre-notched snap-off points
- Further pre-notched snap-off point at base of sidewall allow cutting out and removing sections of sidewall with no sharp edges
- Raised mounting points for easily, quickly and securely fastening wire retainers and other accessories prior to cabling
- Wire retainers and accessories leave no protruding parts below surface of duct
- Duct covers are easy to mount and remove, yet hold securely even in a vertical position and under vibration
- Cover is flush with side of duct, allowing for tight, contiguous placement of ducts
- Additional retainer nub on fingers on ducts height 80 and above to prevent cables from slipping
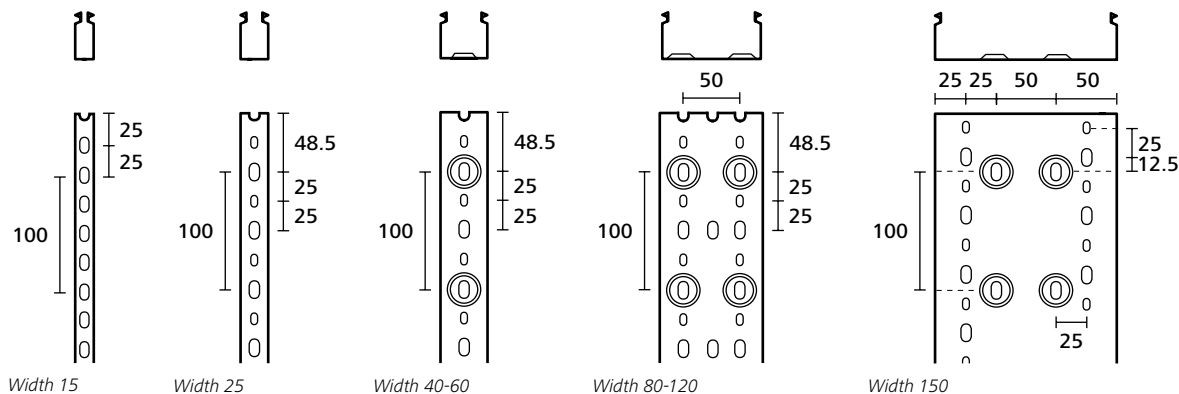- Base perforation according to DIN EN 50085
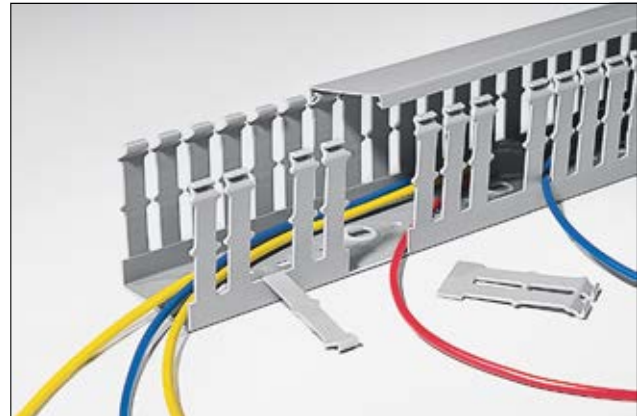


*HTWD-PW wiring ducts with wide fingers and slots for large-diameter wires.*

| MATERIAL | Polyvinylchloride (PVC) |
|---|---|
| Colour | Grey (GY) |
| Length (L) | 2 m |
| Operating Temperature | -5 °C to +65 °C |
| Flammability | UL 94 V0 |

RoHS ✓

### HTWD-PW wiring ducts base perforation according to DIN EN 50085



*Width 15*   *Width 25*   *Width 40-60*   *Width 80-120*   *Width 150*



*Hole dimensions*

c**UL**us

**HellermannTyton**

## Rigid PVC wiring ducts

**HelaDuct HTWD-PW for large-diameter wires**
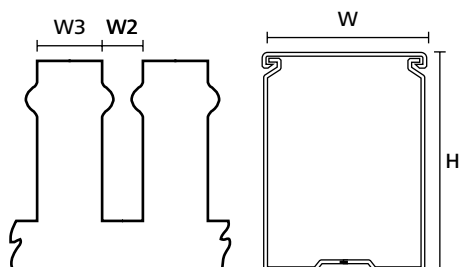


*Wiring duct HTWD-PW*

| TYPE | Width (W) | Height (H) | Width (W2) | Width (W3) | Pack Cont. | Article-No. |
|---|---|---|---|---|---|---|
| HTWD-PW-15X18 | 15 | 18 | 5 | 7.5 | 72 m | 181-10018 |
| HTWD-PW-15X30 | 15 | 30 | 5 | 7.5 | 64 m | 181-10038 |
| HTWD-PW-15X40 | 15 | 40 | 5 | 7.5 | 48 m | 181-10058 |
| HTWD-PW-15X60 | 15 | 60 | 5 | 7.5 | 32 m | 181-10118 |
| HTWD-PW-25X30 | 25 | 30 | 5 | 7.5 | 72 m | 181-10028 |
| HTWD-PW-25X40 | 25 | 40 | 8 | 12 | 72 m | 181-10068 |
| HTWD-PW-25X60 | 25 | 60 | 8 | 12 | 48 m | 181-10138 |
| HTWD-PW-25X80 | 25 | 80 | 8 | 12 | 48 m | 181-10198 |
| HTWD-PW-25X100 | 25 | 100 | 8 | 12 | 16 m | 181-10328 |
| HTWD-PW-40X40 | 40 | 40 | 8 | 12 | 40 m | 181-10078 |
| HTWD-PW-40X60 | 40 | 60 | 8 | 12 | 36 m | 181-10148 |
| HTWD-PW-40X80 | 40 | 80 | 8 | 12 | 32 m | 181-10208 |
| HTWD-PW-40X100 | 40 | 100 | 8 | 12 | 16 m | 181-10258 |
| HTWD-PW-60X40 | 60 | 40 | 8 | 12 | 24 m | 181-10088 |
| HTWD-PW-60X60 | 60 | 60 | 8 | 12 | 24 m | 181-10158 |
| HTWD-PW-60X80 | 60 | 80 | 8 | 12 | 24 m | 181-10218 |
| HTWD-PW-60X100 | 60 | 100 | 8 | 12 | 8 m | 181-10268 |
| HTWD-PW-80X40 | 80 | 40 | 8 | 12 | 24 m | 181-10098 |
| HTWD-PW-80X60 | 80 | 60 | 8 | 12 | 24 m | 181-10168 |
| HTWD-PW-80X80 | 80 | 80 | 8 | 12 | 24 m | 181-10228 |
| HTWD-PW-80X100 | 80 | 100 | 8 | 12 | 8 m | 181-10329 |
| HTWD-PW-100X40 | 100 | 40 | 8 | 12 | 16 m | 181-10108 |
| HTWD-PW-100X60 | 100 | 60 | 8 | 12 | 16 m | 181-10178 |
| HTWD-PW-100X80 | 100 | 80 | 8 | 12 | 16 m | 181-10238 |
| HTWD-PW-100X100 | 100 | 100 | 8 | 12 | 8 m | 181-10278 |
| HTWD-PW-120X60 | 120 | 60 | 8 | 12 | 16 m | 181-10188 |
| HTWD-PW-120X80 | 120 | 80 | 8 | 12 | 16 m | 181-10248 |
| HTWD-PW-150X100 | 150 | 100 | 8 | 12 | 8 m | 181-10288 |

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

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## Edge protection for cut-out sections

Flexiform edge protection is used to protect cables and wires routed through sharp-edged cut-out sections.

### Features and benefits
- Very flexible
- Easily and securely applied without adhesives
- Provides effective, orderly-looking protection
- Flexiform G51P made of polyethylene offers general purpose edge protection
- Flexiform G51N made of PA6 offers very good abrasion resistance
- Flexiform G51T made of PTFE offers excellent resistance to high temperatures and most chemicals

*Optimal protection of cables and wires at panel edges.*

### Flexiform G51P polyethylene grommet strip

*Flexiform edge protection*
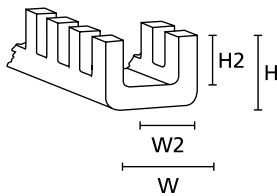
| MATERIAL | Polyethylene (PE) |
|---|---|
| Operating Temperature | -30 °C to +80 °C |
| Flammability | UL 94 HB |

HF ✓    RoHS ✓

| TYPE | Panel Thickness | Width (W) | Width (W2) | Height (H) | Height (H2) | Material | Colour | Pack Cont. | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| G51PAA | 0.4 - 0.9 | 2.3 | 0.9 | 2.7 | 1.8 | PE | Natural (NA) | 25 m | 251-10009 |
| G51PA | 0.4 - 1.3 | 3.9 | 1.5 | 4.3 | 2.7 | PE | Natural (NA) | 25 m | 251-10109 |
| G51PB | 1.3 - 2.1 | 4.6 | 2.4 | 4.3 | 2.7 | PE | Natural (NA) | 25 m | 251-10209 |
| G51PC | 2.1 - 3.3 | 5.7 | 3.5 | 4.3 | 2.7 | PE | Natural (NA) | 25 m | 251-10309 |
| G51PD | 3.3 - 4.8 | 8.4 | 5.1 | 6.2 | 4.3 | PE | Natural (NA) | 25 m | 251-10409 |
| G51PE | 4.8 - 6.5 | 9.9 | 6.7 | 6.4 | 4.5 | PE | Natural (NA) | 25 m | 251-10509 |
| G51PF | 6.5 - 8.1 | 11.4 | 8.3 | 6.8 | 4.8 | PE | Natural (NA) | 25 m | 251-10609 |
| G51PG | 8.1 - 9.7 | 13.2 | 10.1 | 6.8 | 4.8 | PE | Natural (NA) | 25 m | 251-10709 |
| G51PH | 9.7 - 12.9 | 16.4 | 13.2 | 6.8 | 4.8 | PE | Natural (NA) | 25 m | 251-10809 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.
Flexiform grommet strips are not self-adhesive and therefore not suitable for outer edges.
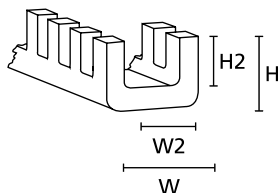
## Edge protection for cut-out sections

### Flexiform G51N polyamide 6 grommet strip

*Flexiform edge protection*

| MATERIAL | Polyamide 6 (PA6) |
|---|---|
| **Operating Temperature** | -60 °C to +95 °C |
| **Flammability** | UL 94 HB |

HF ✓   RoHS ✓

| TYPE | Panel Thickness | Width (W) | Width (W2) | Height (H) | Height (H2) | Material | Colour | Pack Cont. | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| G51NA | 0.4 - 1.3 | 3.9 | 1.5 | 4.3 | 2.7 | PA6 | Natural (NA) | 25 m | 251-21109 |
| G51NB | 1.3 - 2.1 | 4.6 | 2.4 | 4.3 | 2.7 | PA6 | Natural (NA) | 25 m | 251-21209 |
| G51NC | 2.1 - 3.3 | 5.7 | 3.5 | 4.3 | 2.7 | PA6 | Natural (NA) | 25 m | 251-21309 |
| G51ND | 3.3 - 4.8 | 8.4 | 5.1 | 6.2 | 4.3 | PA6 | Natural (NA) | 25 m | 251-21409 |
| G51NE | 4.8 - 6.5 | 9.9 | 6.7 | 6.4 | 4.5 | PA6 | Natural (NA) | 25 m | 251-21509 |
| G51NF | 6.5 - 8.1 | 11.4 | 8.3 | 6.8 | 4.8 | PA6 | Natural (NA) | 25 m | 251-21609 |
| G51NG | 8.1 - 9.7 | 13.2 | 10.1 | 6.8 | 4.8 | PA6 | Natural (NA) | 25 m | 251-21709 |
| G51NH | 9.7 - 12.9 | 16.4 | 13.2 | 6.8 | 4.8 | PA6 | Natural (NA) | 25 m | 251-21809 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.
Flexiform grommet strips are not self-adhesive and therefore not suitable for outer edges.

NASM

### Flexiform G51T PTFE grommet strip
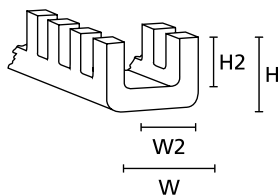
*Flexiform edge protection*

| MATERIAL | Polytetrafluoroethylene (PTFE) |
|---|---|
| **Operating Temperature** | -60 °C to +260 °C, intermittent +350 °C |
| **Flammability** | UL 94 V0 |

RoHS ✓

| TYPE | Panel Thickness | Width (W) | Width (W2) | Height (H) | Height (H2) | Material | Colour | Pack Cont. | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| G51TA | 0.4 - 1.3 | 3.9 | 1.5 | 4.3 | 2.7 | PTFE | Natural (NA) | 3 m | 251-30109 |
| G51TB | 1.3 - 2.1 | 4.6 | 2.4 | 4.3 | 2.7 | PTFE | Natural (NA) | 3 m | 251-30209 |
| G51TC | 2.1 - 3.3 | 5.7 | 3.5 | 4.3 | 2.7 | PTFE | Natural (NA) | 3 m | 251-30309 |
| G51TD | 3.3 - 4.8 | 8.4 | 5.1 | 6.2 | 4.3 | PTFE | Natural (NA) | 3 m | 251-30409 |
| G51TE | 4.8 - 6.5 | 9.9 | 6.7 | 6.4 | 4.5 | PTFE | Natural (NA) | 3 m | 251-30509 |
| G51TF | 6.5 - 8.1 | 11.4 | 8.3 | 6.8 | 4.8 | PTFE | Natural (NA) | 3 m | 251-30609 |
| G51TG | 8.1 - 9.7 | 13.2 | 10.1 | 6.8 | 4.8 | PTFE | Natural (NA) | 3 m | 251-30709 |
| G51TH | 9.7 - 12.9 | 16.4 | 13.2 | 6.8 | 4.8 | PTFE | Natural (NA) | 3 m | 251-30809 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.
Flexiform grommet strips are not self-adhesive and therefore not suitable for outer edges.
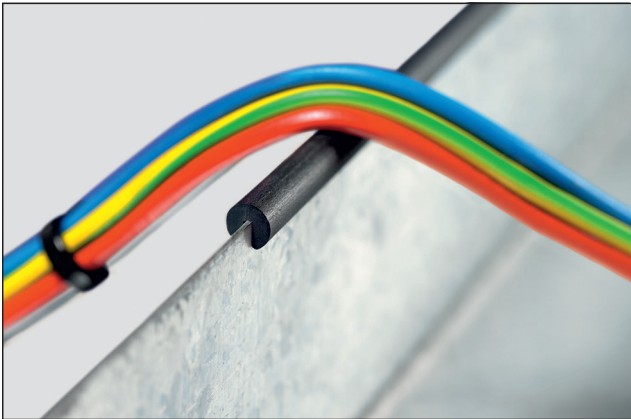
## Beading Edge Protection

### EdgeGuard

PVC Beading strip is used to protect cables routed through sharp-edged cutout sections. It can also be used to provide an attractive finish to panel edges.
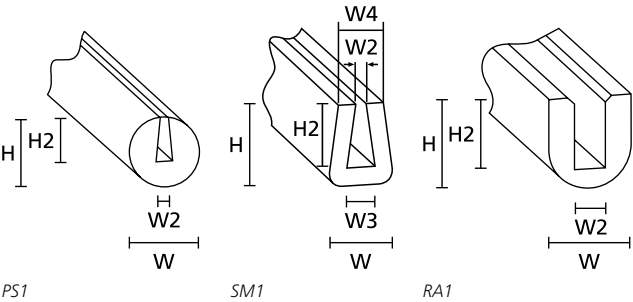
**Features and benefits**
• Very flexible
• Easy to apply
• Protects cables from chafing on bulkheads



*EdgeGuard protects against short panel edges.*

| MATERIAL | Polyvinylchloride (PVC) |
|---|---|
| **Operating Temperature** | -65 °C to +105 °C, intermittent +135 °C |
| **Flammability** | UL 94 HB |

**RoHS** ✓



*PS1*    *SM1*    *RA1*

| TYPE | Width (W) | Width (W2) | Width (W3) | Width (W4) | Height (H) | Height (H2) | Colour | Pack Cont. | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| **PS1** | 1.2 | 0.6 | - | - | 5.0 | 3.2 | Black (BK) | 75 m | 800-00200 |
| **SM1** | 5.0 | 1.0 | 1.8 | 4.2 | 6.3 | 4.9 | Black (BK) | 75 m | 800-00004 |
| **RA1** | 6.4 | 2.4 | - | - | 7.1 | 5.6 | Black (BK) | 75 m | 800-00001 |

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

## Connectors - For Solid and Stranded Wires

### HelaCon Plus Mini

HelaCon connectors are used for fast, easy and reliable connection and distribution of cable and conductors in electrical installation applications. The new generation of HelaCon Plus Mini wire connectors can be applied tool-free using the push-in technology. HelaCon Plus Mini uses a double spring which is approved for solid and stranded wires.

**Features and benefits**

- 40 % smaller – Space saving design
- Low insertion force – Easy to use, saves time on installation
- Easy access to voltage test entry and innovative port shape design
- Correct installation can be visually checked through transparent housing
- Different colour codes for easy identification of size
- Allows different conductor diameters in each entry
- Safe application, installation and maintenance
- Practical Variobox with 350 pcs. of selected HCPM wire connectors available (148-90046)

*HelaCon Plus Mini fits perfect in every space limited situation.*

| MATERIAL | Polycarbonate (PC) |
|---|---|
| **Max Current** | 24 A |
| **Max Voltage** | 600 V |
| **Wire Range (VDE) in mm²** | 0.5 to 2.5 mm² solid wires / 1.0 to 2.5 mm² stranded wires |
| **Stripping Length** | 11.0 mm |
| **Flammability** | UL 94 V0 |
| **Operating Temperature** | -30 °C to +85 °C |

HF ✓    RoHS ✓
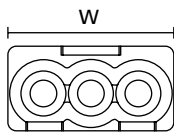
*HelaCon Plus Mini front view*
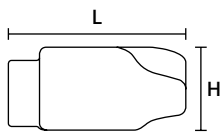
*HelaCon Plus Mini side view*

*One Step to the Web!*

| TYPE | Drawing | Number of Conductors | Colour | Width (W) | Height (H) | Length (L) | Pack Cont. | Article-No. |
|---|---|---|---|---|---|---|---|---|
| **HCPM-2** | | 2 | Transparent (CL), Yellow (YE) | 10.8 | 7.7 | 16.5 | 150 pcs. | 148-90036 |
| **HCPM-3** | | 3 | Transparent (CL), Orange (OG) | 15.1 | 7.7 | 16.5 | 100 pcs. | 148-90037 |
| **HCPM-4** | | 4 | Transparent (CL) | 19.4 | 7.7 | 16.5 | 100 pcs. | 148-90038 |
| **HCPM-5** | | 5 | Transparent (CL), Blue (BU) | 23.7 | 7.7 | 16.5 | 75 pcs. | 148-90039 |
| **HCPM-6** | | 6 | Transparent (CL), Violet (VT) | 28.0 | 7.7 | 16.5 | 50 pcs. | 148-90040 |
| **HCPM-8** | | 8 | Transparent (CL), Black (BK) | 36.6 | 7.7 | 16.5 | 50 pcs. | 148-90041 |
| **HCPM Variobox 350** | | - | Transparent (CL) | - | 7.7 | 16.5 | 350 pcs. | 148-90046 |

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

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## Connection Products

### HTCB<sup>+</sup> Connector Box

A thermo plastic (polypropylene) enclosure, which can be used as a junction box for fixed wiring and when used in conjunction with the cable restraints (supplied) can also be used as an in-line connector for such applications as terminating solid/stranded cable to flexible cable.
Its tapered pin allows ease when locating the connector strip within the housing.

**Features and Benefits**

• Dimensions: 109mm x 52mm x 28mm
• Voltage: 250 V AC
• The HTCB$^+$ is designed to take up to 4 pole 15/16A terminal strips across its width enabling wiring of typical lighting circuit with cabling loop in, loop out, switch and light, for example.

**Contents include:**

• 1 x connector box enclosure
• 2 x cable restraints
• 4 screws 12.5mm x 3mm (for cable restraints)
• 2 x screws 19.5mm x 3mm (for box lid)
• Screws and cable restraints are packed separately to save contractors assembly time
• Supplied in a trade counter merchandiser in quantities of 50


*Connector Box Merchandiser Box.*


*Connector Box.*

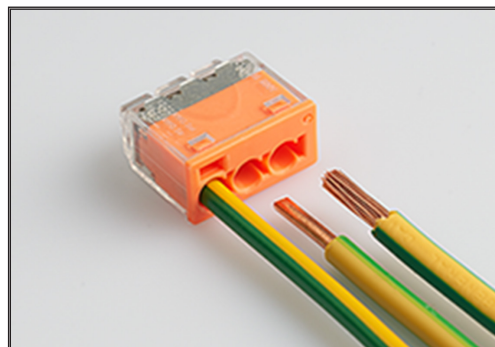| TYPE | Description | Pack Cont. |
|---|---|---|
| HTCB$^+$ | Connector Box | 1 |

## Connection Products

### HelaCon Plus 32amp Push-in Wire Connector Releasable

A 32 amp 450V releasable push in wire connector used for fast, easy and reliable connection of lighting and power circuits.

**Features and Benefits**

• Suitable for 0.5mm$^2$ to 4mm$^2$ solid/stranded cable
• Can be released using special tool (included in pack)
  3 poles
• Tool can also be purchased separately
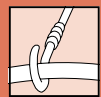• Suitable for fine stranded (flex)
  cable 0.5-2.5mm$^2$


*HelaCon 32amp.*
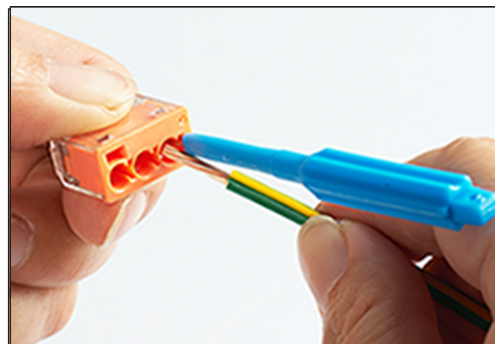

*Replacement Tool.*

| TYPE | Description | Pack Cont. |
|---|---|---|
| HECP3-32A | 32amp Push-In Wire Connector | 75 |
| HECP3-32ATOOL | Spare Tool | 1 |

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## Cable Installation System - Cable Scout+

### Cable Scout+ Rod Sets

Cable Scout+ is a professional cable routing tool which enables installers to easily route cables, saving time, even with the most challenging installations. The rods are manufactured from high quality Glass Reinforced Plastic (GRP), which enables a load carrying capacity of up to 200 kg. Cable Scout+ offers a range of features which allows the installer to illuminate, grip, inspect and retrieve by using the range of accessories. Cable Scout+ is supplied in a useful durable bag which contains the rods and accessories all in one place.

### Features and benefits

- Professional cable installation tool
- Enables time savings to be achieved even with challenging installations
- Rods manufactured from high quality Glass Reinforced Plastic (GRP)
- Load carrying capacity of 200 kg
- Range of accessories enabling the installer to illuminate, grip inspect and retrieve.
- Rods & accessories contained in a useful durable storage bag

*Application video:*
*Cable Scout+*



*All components stored neat and tidy with the Cable Scout+ Deluxe set.*



*Basic Set.*



*Handy Set.*

| TYPE | Description | Content Rods | Rod Capacity (m) | Content Accessories | Article-No. |
|------|-------------|--------------|------------------|---------------------|-------------|
| CS-SB | Basic Set: designed to perform basic cable installation | 10 rods x 1 m (white) | 10.0 m | 15 cm white flexi lead, gender changer, tuff hook, mini eye | 897-90000 |
| CS-SD | Deluxe Set: the most comprehensive set aimed for carrying out larger installations | 2 rods x 1 m (white) 6 rods x 1 m (red) 2 rods x 1 m (blue) | 10.0 m | 15 cm white flexi lead, split ring, gender changer, tuff hook, mini eye, domed bullet, flat bullet, beam, single magnet | 897-90001 |
| CS-SH | Handy Set: made up for fitting in a tool box | 1 rod x 40 cm (white) 2 rods x 40 cm (red) 1 rod x 40 cm (blue) | 1.6 m | 40 cm white flexi lead, domed bullet, mini hook, mini eye | 897-90003 |

Subject to technical changes.

### Cable Scout+ Rod Pairs
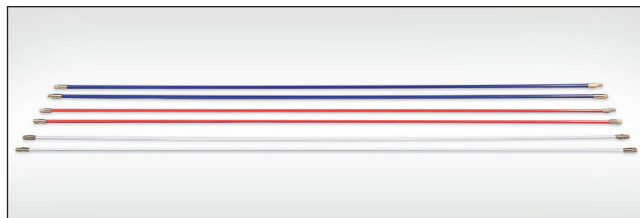


*Overview of the rods selection.*

| TYPE | Content Rods | Flexibility | Ø (D) | Article-No. |
|------|--------------|-------------|-------|-------------|
| CS-P6 | One pair of 1 m blue rods | strong | 6.0 | 897-90007 |
| CS-PN | One pair of 1 m nylon rods | fully flexible | 5.0 | 897-90008 |
| CS-P5 | One pair of 1 m red rods | medium | 5.0 | 897-90006 |
| CS-P4 | One pair of 1 m white rods | flexible | 4.0 | 897-90005 |

All dimensions in mm. Subject to technical changes.
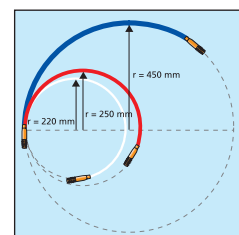


*Overview on Cable Scout+ marginal bending radii.*
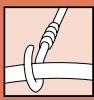
## Cable Installation System - Cable Scout+

### Cable Scout+ Accessories

Cable Scout+ is supplied with a range of useful standard accessories. Additional accessories can be purchased separately. Cable Grips are designed to grip objects and provide reliable and time saving method of securing cables & pipes to the rods. Just open the grip by compressing the braid, push the grip over the cable or pipe and release the grip, which will contract and establish a tight grip on the cable or pipe to the rod set.

**Features and benefits**
- Accessory kit includes a lot of useful tools
- User can inspect, illuminate and retrieve
- Cable grips allows a very fast way to pull cables
- Whisk glides smoothly over obstacles
- LED Beam brings light into the dark
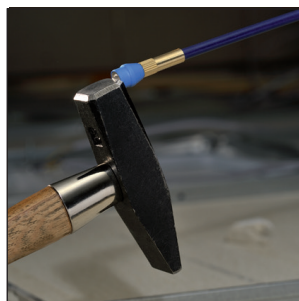- Strong magnet lifts metallic tools up to 2.5 kg weight



*Cable Grips are available in five different sizes to attach a wide range of cable diameters.*



*The Cable Scout+ Beam - a perfect tool for seeing into cavities.*



*The whisk allows the rod to glide over obstructions easily.*



*The strong magnet lifts a metallic tool of up to 2.5 kg.*



*Cable Pulling Lubricant reduces friction during the installation of cables.*

| TYPE | Drawing | Description | Article-No. |
|---|---|---|---|
| CS-SA | | Accessory Kit: Includes a 15 cm long flexi lead, gender changer, mini hook, tuff hook, mini eye, split ring, round bullet, flat bullet, single magnet, chain | 897-90004 |
| CS-ACG1630 | | Cable Grip: Suitable for diameter 1.6 - 3.0 cm | 897-90027 |
| CS-ACG0415 | | Cable Grip: Suitable for diameters 0.4 - 1.5 cm | 897-90026 |
| CS-AWL | | Large whisk: designed to glide over more uneven surfaces such as roof tiles. | 897-90019 |
| CS-AW | | Whisk: Enables cables to glide over rough and uneven surfaces. | 897-90018 |
| CS-AB | | Beam: Useful LED torch enables inspection of working area. Uses 1 x AAA Battery. | 897-90016 |
| CS-AMG2 | | Strong Magnet: Enables positioning or retrieval of items weighing up to 2.5 kg. | 897-90015 |
| CS - CPL | | Cable pulling lubricant: provides reliable protection against cable jacket damage by reducing the frictional resistance up to 80 %. | 897-90031 |

Subject to technical changes.
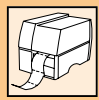
HellermannTyton

## Thermal Transfer Printer

TT431, Small to medium volume printing

The TT431 thermal transfer printer is ideal for printing on HellermannTyton media such as self-adhesive labels, shrinkable tubing and identification tags. Thanks to its low weight and compact design, the TT431 integrates perfectly at any workstation. It is easy to use thanks to its intuitive LCD colour touch screen display and clear status messages which can be displayed in several languages. The optional cutter and perforator make this printer ideal for a wide range of applications. The use of the TT431 combined with our ink ribbons and our TAGPRINT PRO design software, gives you professional quality printed labels with a 300 dpi resolution.

### Features and Benefits

• Small to medium volume single sided printing
• Print on HellermannTyton cable markers and labels
• Uses standard ribbons
• Barcodes: standard and 2D
• Print speed up to 150 mm/s
• Adjustable label sensor
• Multiple language selection
• Windows drivers: 32/64 bit for Windows Vista, Windows 7, 8 and 1



*TT431 thermal transfer printer.*



*TT431 thermal transfer printer.*

| Print Method | Thermal Transfer |
|---|---|
| Print Head Type | 300 dpi, flat type |
| Print Speed | up tp 125 mm/s |
| Max. Print Width | 106mm |
| Label Height Max (metric) | 1,000mm |
| Interfaces | USB 2.0, Ethernet 10/100 Base T |
| Supported Barcodes, Printer | Standard and 2D |
| Printer Memory | 64MB RAM |
| Dimensions W x H x D | 253mm x 189mm x 322mm |
| Weight | 4kg |

| TYPE | Article-No. |
|---|---|
| TT431 | 556-00400 |

**HellermannTyton**

## Thermal transfer printer

### TT4030, High volume printing

HellermannTyton's premium printer TT4030 is specifically designed for medium and heavy duty industrial applications. The 300 dpi print head fulfils all standard requirements for printing bar codes, warning signs, logos and written information. Optional premium quality accessories such as a perforator and cutter are designed to work seamlessly with the printer and will suit the most demanding needs.

Printing high definition graphics such as 2d barcodes, standard bar codes, numbers and text on adhesive labels, thermo plastics such as heat shrink and cable markers (Tiptags) is easily done.

A colour LCD Touchscreen with modern user interface helps intuitive operation.

Creation of professional looking industrial identification is simplified by the use of HellermannTyton´s label creation software TagPrint Pro 3.0.

Whether in stand-alone mode, as a PC application or in a network - the robust TT4030 printers can meet every requirement.

### Features and benefits

- High volume single sided printing
- Print on HellermannTyton heatshrink tubing, cable markers and labels
- Uses standard 300 m ribbons
- Barcodes: standard and 2D
- Print speed up to 300 mm/s (30 mm/s recommended for ladder style products and tubing)
- Multiple language selection
- Windows drivers: 32 / 64 bit for Windows XP, Windows Vista, Windows 7, 8, 10



*TT4030 thermal transfer printer for high volumes.*

| Print Method | Thermal transfer |
|---|---|
| Print Head Type | 300 dpi, flat type |
| Print Speed | up to 300 mm/s |
| Max. Print Width | 101.6 mm |
| Label Height Max (metric) | 2,000 mm |
| Interfaces | RS232 C, USB 2.0, Ethernet 10/100 Base T |
| Supported Barcodes, Printer | Standard, 2D |
| Printer Memory | 256 MB RAM |
| Dimensions W x H x D | 252 mm x 288 mm x 460 mm |
| Weight | 10 kg |

HF ✓    RoHS ✓

*One Step to the Web!*

| TYPE | Article-No. |
|---|---|
| TT4030 | 556-04037 |

Subject to technical changes.

| TYPE | Description | Article-No. |
|---|---|---|
| P4030 Perforator | Perforator for TT4030 | 556-04051 |
| TT4030 Printhead 4.3/300 | Printhead for TT4030 | 556-04041 |
| S4030 Cutter | S4030 Cutter for TT4030 | 556-04050 |
| TT External Reel Holder | External Reel Holder | 556-00451 |
| Printer Roller TT4030/TT4000+ | Printer Roller for TT4030/TT4000+ | 556-04005 |

Subject to technical changes.

HellermannTyton

## Thermal transfer ribbons for
### Adhesive Labels

The thermal transfer print technology is based on heating up certain dots in the print head. This transfers the ink very precisely from the ribbon onto the surface of the printed material. All HellermannTyton ribbons consist of a special resin composition to maximise print performance. In combination with HellermannTyton printers the ribbons ensure the highest of print quality on all HellermannTyton thermal printable identification materials.

**Features and benefits**
• Thermal transfer ribbons for highest quality and performance of printed labels
• Ribbons are specifically designed to maximise print performance for the recommended material
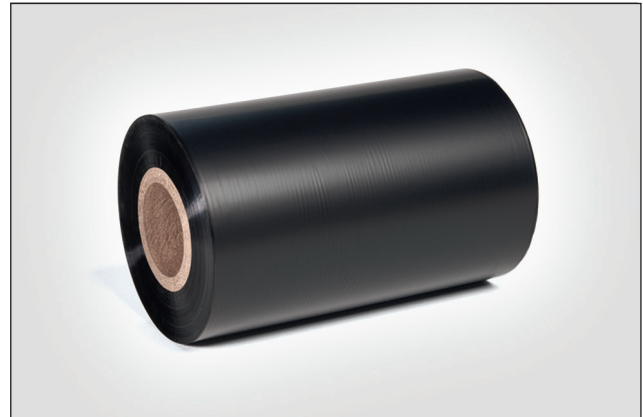
*Ribbons for printing on adhesive labels.*
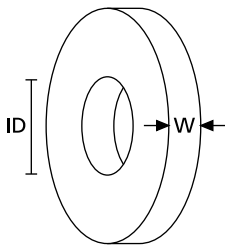
**ID: The standard inside core diameter is 25.4 mm.**

| TYPE | Recommended Material | Colour | Width (W) | Reel Length | Article-No. |
|------|---------------------|--------|-----------|-------------|-------------|
| TT822OUT 60MM | 323/823/880/892/951/1203/1204/1206/1208/1210/1211/1213/1216/1220/1221 | Black (BK) | 60.0 | 300 m | 556-00111 |
| TT822OUT 110MM | 323/823/880/892/951/1203/1204/1206/1208/1210/1211/1213/1216/1220/1221 | Black (BK) | 110.0 | 300 m | 556-00101 |
| TT932DOUT 85MM | 323/1209 | Black (BK) | 85.0 | 300 m | 556-00117 |
| TT932DOUT 110MM | 323/1209 | Black (BK) | 110.0 | 300 m | 556-00118 |
| TT122OUT 60mm | 1220/1221 | Black (BK) | 60.0 | 300 m | 556-00060 |
| TT122OUT 110mm | 1220/1221 | Black (BK) | 110.0 | 300 m | 556-00061 |
| TTRR 110 | Labels/1220/1221 | Red (RD) | 110.0 | 300 m | 556-00208 |

All dimensions in mm. Subject to technical changes.

**RoHS** ✓

**HellermannTyton**

## Identification tags for cable bundle, thermal transfer

**TIPTAG HF - Limited Fire Hazard Tiptags, Halogen free**

The Tiptag HF cable markers have been designed to identify larger wires and cable bundles not only in the electronics and general cabling environments but also in the railway industry. Tiptag HF is halogen free and its material properties show low smoke propagation, density and toxicity. Tiptags are presented in a special perforated format which include fastening slots for easy fitting with cable ties. They are also suitable for retrofit purposes.

Print from the reel with HellermannTyton's premium range of thermal transfer printers and ribbons for optimum print quality and longevity.

### Features and benefits

• Ideal for marking larger wire and cable bundles
• Halogen free
• Low smoke propagation and toxicity
• Perforated format that includes fastening slots for cable ties
• Available in various colours
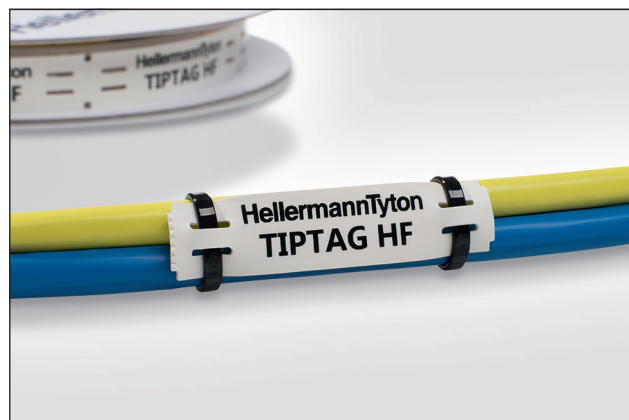


*TIPTAG - high performance cable bundle marking.*

| MATERIAL | Polyolefin (PO) |
|---|---|
| Operating Temperature | -40 °C to +90 °C |
| Flammability | Limited Fire Hazard, Low generation of toxic gases and corrosive acid, Low smoke generation, Halogen free |
| Recommended Ribbon Type | TTDTHOUT |
| Thermal Transfer Printer | TT430, TT4030 |
| EN 45545-2 Classification | R22 HL3, R23 HL3 |

HF ✓    LFH ✓

RoHS ✓
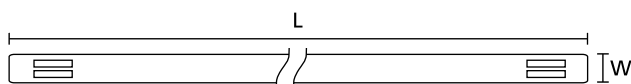
| TYPE | Length (L) | Width (W) | Pack Cont. | Colour | Article-No. |
|---|---|---|---|---|---|
| TIPTAG11X65BU | 65.0 | 11.0 | 190 pcs. | Blue (BU) | 556-20066 |
| TIPTAG11X65RD | 65.0 | 11.0 | 190 pcs. | Red (RD) | 556-20062 |
| TIPTAG11X65WH | 65.0 | 11.0 | 190 pcs. | White (WH) | 556-20069 |
| TIPTAG11X65YE | 65.0 | 11.0 | 190 pcs. | Yellow (YE) | 556-20064 |
| TIPTAG15X65WH | 65.0 | 15.0 | 190 pcs. | White (WH) | 556-21069 |
| TIPTAG15X65YE | 65.0 | 15.0 | 190 pcs. | Yellow (YE) | 556-21064 |
| TIPTAG11X100BU | 100.0 | 11.0 | 120 pcs. | Blue (BU) | 556-20080 |
| TIPTAG11X100RD | 100.0 | 11.0 | 120 pcs. | Red (RD) | 556-20091 |
| TIPTAG11X100WH | 100.0 | 11.0 | 120 pcs. | White (WH) | 556-20079 |
| TIPTAG11X100YE | 100.0 | 11.0 | 120 pcs. | Yellow (YE) | 556-20074 |
| TIPTAG15X100RD | 100.0 | 15.0 | 120 pcs. | Red (RD) | 556-21096 |
| TIPTAG15X100WH | 100.0 | 15.0 | 120 pcs. | White (WH) | 556-21079 |
| TIPTAG15X100YE | 100.0 | 15.0 | 120 pcs. | Yellow (YE) | 556-21074 |

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

EN 45545-2

## Self-laminating labels, thermal transfer

### Helatag 1209 (White-Transparent)

These labels are ideal identifying cables and wire. They consist of a printable area plus a lamination function for protection of print text against humidity, dirt, debris and mechanical abrasion. Due to its flexibility these labels are also suitable for flat ribbon cables.

**Features and benefits**

- High-quality self-laminating labels
- Suitable for marking of wires and cables
- Laminating function gives excellent protection against humidity and mechanical abrasion
- Rounded edge design gives additional bonding strength



*Helatag 1209 offers an excellent protection against abrasion and environmental impact.*

| MATERIAL | Type 1209, Vinyl (PVC), white (WH), transparent (CL) |
|---|---|
| **Operating Temperature** | -20 °C to +80 °C |
| **Curing Temperature** | from 0 °C |
| **Adhesive** | Acrylic |
| **Thickness of Foil** | 90 µm |
| **Chem. Material Properties** | Resistant to water, alcohol, most oils, greases, fuel, aliphatic solvents, weak acids, salts and alkalis. |
| **Recommended Ribbon Type** | TT932DOUT |
| **Thermal Transfer Printer** | TT430, TT4030 |
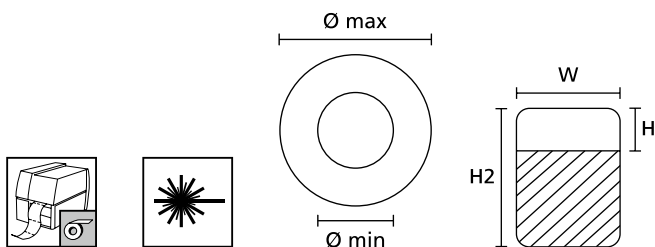
**RoHS** ✓

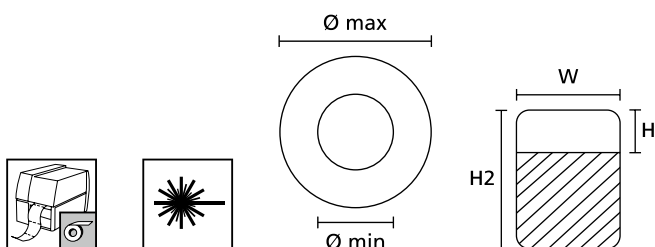| TYPE | Bundle Ø min. | Bundle Ø max. | Width (W) | Height (H) | Height (H2) | Width of Liner (WL) | Labels per Row | Pack Cont. | Colour | Article-No. |
|---|---|---|---|---|---|---|---|---|---|---|
| **TAG51TD3-1209-WHCL** | 1.4 | 3.0 | 25.4 | 8.8 | 19.1 | 85.0 | 3 pcs. | 5,000 pcs. | White (WH), Transparent (CL) | 596-12091 |
| **TAG26TD6-1209-WHCL** | 1.5 | 3.0 | 12.7 | 9.5 | 19.1 | 85.0 | 6 pcs. | 10,000 pcs. | White (WH), Transparent (CL) | 596-12096 |
| **TAG36TD7-1209-WHCL** | 2.0 | 4.7 | 12.7 | 9.0 | 23.8 | 95.0 | 7 pcs. | 10,000 pcs. | White (WH), Transparent (CL) | 596-12097 |
| **TAG2TD6-1209-WHCL** | 3.5 | 7.6 | 12.7 | 12.7 | 36.5 | 82.0 | 6 pcs. | 5,000 pcs. | White (WH), Transparent (CL) | 596-61209 |
| **TAG22TD3-1209-WHCL** | 3.5 | 7.6 | 25.4 | 12.7 | 36.5 | 82.0 | 3 pcs. | 2,500 pcs. | White (WH), Transparent (CL) | 596-32091 |
| **TAG24TD1-1209-WHCL** | 3.5 | 7.6 | 50.8 | 12.7 | 36.5 | 55.0 | 1 pc. | 1,000 pcs. | White (WH), Transparent (CL) | 596-12094 |
| **TAG23TD5-1209-WHCL** | 4.5 | 10.0 | 19.1 | 12.7 | 44.5 | 101.6 | 5 pcs. | 5,000 pcs. | White (WH), Transparent (CL) | 596-12095 |
| **TAG25TD3-1209-WHCL** | 4.5 | 10.0 | 25.4 | 12.7 | 44.5 | 82.0 | 3 pcs. | 2,500 pcs. | White (WH), Transparent (CL) | 596-51209 |

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

**HellermannTyton**

## Self-laminating labels, thermal transfer

**Helatag 1209 (White-Transparent)**

| TYPE | Bundle Ø min. | Bundle Ø max. | Width (W) | Height (H) | Height (H2) | Width of Liner (WL) | Labels per Row | Pack Cont. | Colour | Article-No. |
|---|---|---|---|---|---|---|---|---|---|---|
| TAG9TD3-1209-WHCL | 5.5 | 12.1 | 25.4 | 19.1 | 57.1 | 82.0 | 3 pcs. | 2,500 pcs. | White (WH), Transparent (CL) | 596-91209 |
| TAG10TD2-1209-WHCL | 5.5 | 12.1 | 49.5 | 19.1 | 57.1 | 101.6 | 2 pcs. | 1,000 pcs. | White (WH), Transparent (CL) | 596-12090 |
| TAG91TD1-1209-WHCL | 8.0 | 16.0 | 70.0 | 35.0 | 85.0 | 74.0 | 1 pc. | 500 pcs. | White (WH), Transparent (CL) | 596-41209 |
| TAG1TD2-1209-WHCL | 8.5 | 18.2 | 48.2 | 19.1 | 79.2 | 101.6 | 2 pcs. | 1,000 pcs. | White (WH), Transparent (CL) | 596-21209 |
| TAG3TD3-1209-WHCL | 10.0 | 22.2 | 25.4 | 25.4 | 95.3 | 82.0 | 3 pcs. | 1,000 pcs. | White (WH), Transparent (CL) | 596-31209 |
| TAG6TD1-1209-WHCL | 10.0 | 22.2 | 50.8 | 25.4 | 95.3 | 55.0 | 1 pc. | 500 pcs. | White (WH), Transparent (CL) | 596-11209 |
| TAG107TD3-1209-WHCL | 12.0 | 37.5 | 25.4 | 31.8 | 149.9 | 82.0 | 3 pcs. | 1,000 pcs. | White (WH), Transparent (CL) | 596-01209 |
| TAG38TD3-1209-WHCL | 20.8 | 47.5 | 25.4 | 38.1 | 187.2 | 82.0 | 3 pcs. | 1,000 pcs. | White (WH), Transparent (CL) | 596-12098 |
| TAG07TD1-1209-WHCL | 20.8 | 47.5 | 50.8 | 25.4 | 187.2 | 55.0 | 1 pc. | 250 pcs. | White (WH), Transparent (CL) | 596-71209 |

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

## Self-laminating labels, manual marking

**RiteOn, Starter Pack, Material 1401 dispenser**

A specially developed material for use in labels required to wrap around cables and wires. The conformable structure of the label ensures that once the label is applied to the wire it remains in place without lifting.

The SPRO200-1401-WH Starter Pack contains all you need to start work identifying your wires,

1 x RiteOn dispenser

1 x RO202 reel of 150 self-laminating labels for cable diameters ranging from 6 mm to 12 mm

1 x T82S-BK black indelible ink marker pen

### Features and benefits
- Palm sized hand held self-laminating label dispenser
- Easy to write on and dispense labels
- Wide range of wire diameters covered as standard
- Ideal for low volume maintenance and repair work
- Write text with specially formulated fast-drying ink T82 pens

*Easy to write and dispense labels with RiteOn label dispenser.*

| MATERIAL | Type 1401, Vinyl (PVC) |
|---|---|
| **Operating Temperature** | -40 °C to +80 °C |
| **Curing Temperature** | from +10 °C |
| **Adhesive** | Acrylic |
| **Thickness of Foil** | 80 µm |
| **Chem. Material Properties** | Resistant to water, oil and many solvents. |

RoHS ✓
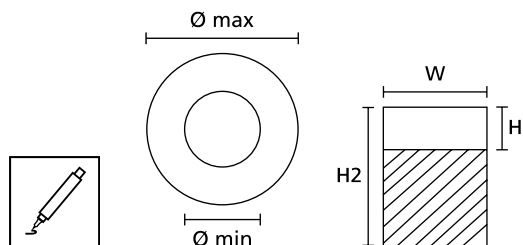
*Application video: RiteOn*

| TYPE | Description | Bundle Ø min. | Bundle Ø max. | Width (W) | Height (H) | Height (H2) | Pack Cont. | Colour | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| **RO201-1401-WH** | Filled dispenser | 4.0 | 8.1 | 12.7 | 12.7 | 38.1 | 200 pcs. | White (WH), Transparent (CL) | 550-14011 |
| **RO202-1401-WH** | Filled dispenser | 6.1 | 12.1 | 19.1 | 12.7 | 50.8 | 150 pcs. | White (WH), Transparent (CL) | 550-14012 |
| **RO203-1401-WH** | Filled dispenser | 9.1 | 18.2 | 19.1 | 25.4 | 76.2 | 100 pcs. | White (WH), Transparent (CL) | 550-14013 |
| **RO201REF-1401-WH** | Refill packs | 4.0 | 8.1 | 12.7 | 12.7 | 38.1 | 200 pcs. | White (WH), Transparent (CL) | 550-14014 |
| **RO202REF-1401-WH** | Refill packs | 6.1 | 12.1 | 19.1 | 12.7 | 50.8 | 150 pcs. | White (WH), Transparent (CL) | 550-11401 |
| **RO203REF-1401-WH** | Refill packs | 9.1 | 18.2 | 19.1 | 25.4 | 76.2 | 100 pcs. | White (WH), Transparent (CL) | 550-71401 |
| **SPRO200-1401-WH** | Starter pack | 6.1 | 12.1 | 19.1 | 12.7 | 50.8 | 150 pcs. | White (WH), Transparent (CL) | 550-14010 |

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

| TYPE | Description | Pack Cont. | Colour | Article-No. |
|---|---|---|---|---|
| **T82S-BK** | Indelible Marker Pen | 2 pcs. | Black (BK) | 500-50820 |
| **T82R-RD** | Indelible Marker Pen | 2 pcs. | Red (RD) | 500-50822 |

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

## Manual Tensioning Tool with Plastic Housing

### EVO7 up to 4.8 mm strap width

HellermannTyton's EVO7 mechanical hand tool was ergonomically designed to reduce the risks of repetitive stress injuries to operators while concurrently increasing productivity. The EVO7 Tension/Lock/Cut Technology delivers performance, safety and comfort for the operators. Available in a standard grip span (EVO7) or short grip span (EVO7SP), for smaller hands. Additional accessories are available.

**Features and benefits**

- Ergonomic, slip-proof handle for a comfortable and secure grip
- Extremely low-maintenance
- Fast and precise application with minimum effort (TLC mechanism)
- Convenient and simple tension adjustment
- Extended, slim nose for use in narrow spaces
- Housing made of resilient and lightweight glass fibre-reinforced polyester
- Standard grip span (90 mm) and short grip span (80 mm) available



*The EVO7: Maximum performance with minimum effort.*

| TYPE | Strap Width max. | Strap Thickness max. | Weight | Article-No. |
|---|---|---|---|---|
| EVO7 | 4.8 | 1.5 | 0.275 kg | 110-70129 |
| EVO7SP | 4.8 | 1.5 | 0.272 kg | 110-70130 |
| BLADEKIT | - | - | 0.02 kg | 110-70106 |

All dimensions in mm. Subject to technical changes.

**SAE**

### CALTOOL for calibration of EVO family

The CALTOOL serves for the fine or readjustment of the EVO family.

**Features and benefits**
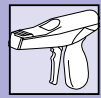
- The factory setting (setting 0-8) of the EVO family can be changed



*CALTOOL for calibration of EVO family.*

| TYPE | Weight | Article-No. |
|---|---|---|
| CALTOOL | 0.032 kg | 110-70089 |

All dimensions in mm. Subject to technical changes.

## Manual tensioning tool plastic housing

### EVO9 up to 13.5 mm strap width

The EVO9 is available in a standard grip span 90 mm (EVO9) or short grip span 80 mm (EVO9SP), for smaller hands. Both tools perform between 53N and 307N. The EVO9HT (high tension) was designed to apply HellermannTyton cable ties from 120N until 516N with a maximum width of 13.5 mm.

**Features and benefits**

- Standard grip span (90 mm) and short grip span (80 mm) available
- Ergonomic, slip-proof handle for a comfortable and secure grip
- Extremely low-maintenance
- Fast and precise application with minimum effort (TLC-technology)
- Convenient and simple tension adjustment
- Integrated 3 position quick adjustment override (EVO9/EVO9SP/EVO9HT)
- Housing made of resilient and lightweight glass fibre-reinforced polyester

*The EVO9 with TLC technology.*

| TYPE | Strap Width max. | Strap Thickness max. | Weight | Article-No. |
|---|---|---|---|---|
| EVO9 | 13.5 | 2.0 | 0.357 kg | 110-80002 |
| EVO9SP | 13.5 | 2.0 | 0.361 kg | 110-80003 |
| EVO9HT | 13.5 | 2.0 | 0.364 kg | 110-80017 |
| Replacement Blade | - | - | 0.01 kg | 110-80037 |

All dimensions in mm. Subject to technical changes.

## Manual Processing Tool with Plastic Housing

### MK7HT up to 4.8 mm strap width

MK7HT application tool is mainly used to apply cable ties in harness making industries.

**Features and benefits**

- Light glass-fibre-reinforced housing
- Ergonomic design
- For cable ties up to 4.8 mm width
- MK7 HighTension version with higher tension force than MK7
- Consistent tensioning and automatically flush cutting
- Infinitely adjustable tension force combined with three-step quick adjustment

*MK7HT.*

| TYPE | Strap Width max. | Strap Thickness max. | Weight | Article-No. |
|---|---|---|---|---|
| MK7HT | 4.8 | 1.5 | 0.29 kg | 110-07000 |
| SP MK7HT replacement blade | - | - | 0.01 kg | 110-07511 |
| SP lock cap tensioning knob | - | - | 0.011 kg | 110-07200 |

All dimensions in mm. Subject to technical changes.

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## Hot cutting tool

**HSG0**

The HSG0 hand tool is used to cut braided sleeving cleanly and without fraying.

**Features and benefits**
- Light and sturdy
- Heats up quickly with the press of button and cuts in seconds
- The yarn melts and fuses together
- No fraying of the sleeving



*The HSG0 hot cutting tool prevents the braided sleeving from fraying.*

| TYPE | Description | Weight | Colour | Article-No. |
|------|-------------|--------|--------|-------------|
| HSG0 | Hot cutting tool | 1.15 kg | Blue (BU) | 170-99003 |
| HSG0BLADE | Replacement blade | 0.027 kg | Metal (ML) | 170-99002 |

Subject to technical changes.
Cannot be used with GSS sleeving.

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# MADE FOR SAFETY

The safety of employees in the work place is paramount and at HellermannTyton our employees' safety is always our priority especially during these challenging times. As an innovator of cable management solutions HellermannTyton has used its expertise to design a selection of new products to help ensure the safety of employees in the work place.
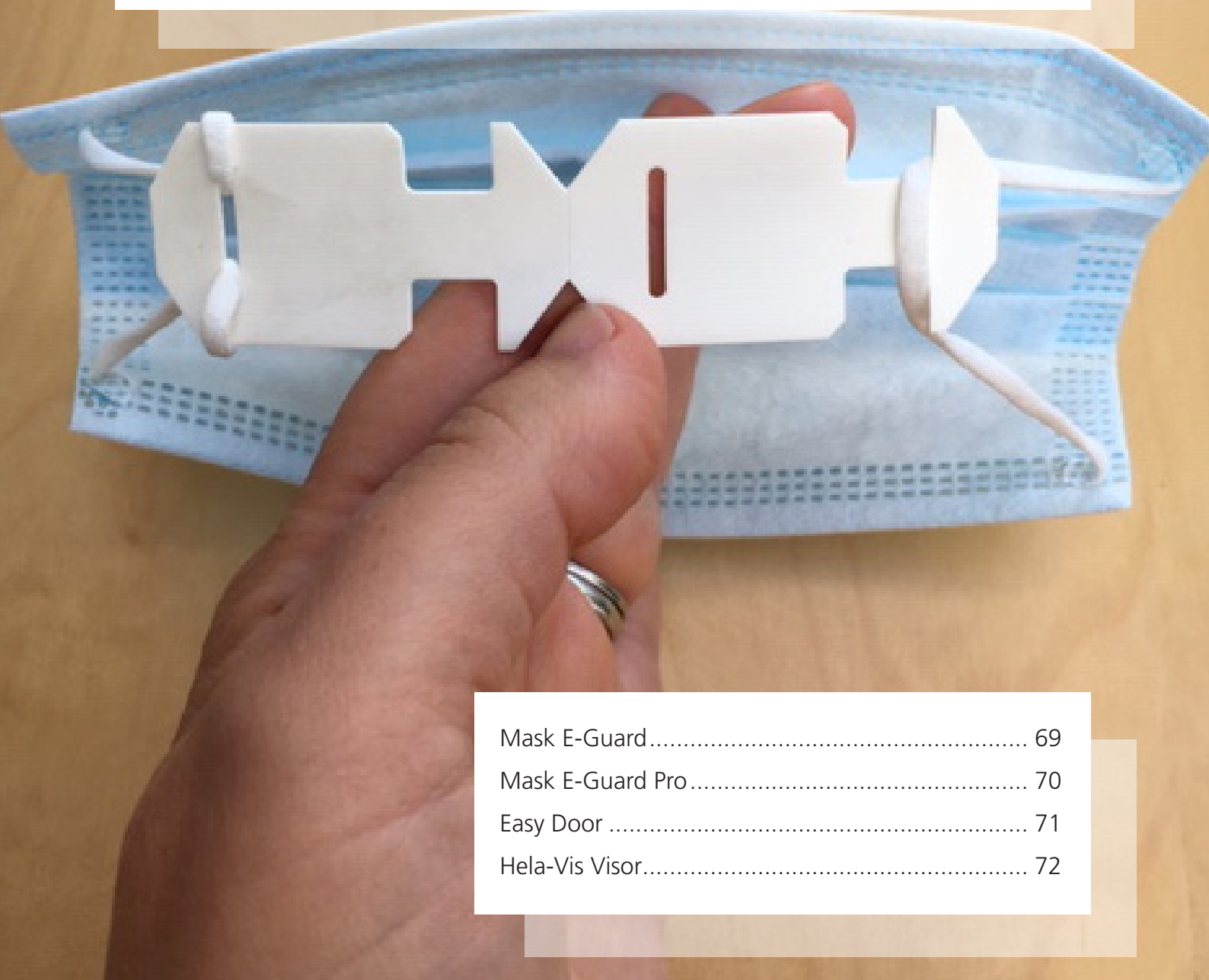
## Mask E-Guard

Comfort Strips for Masks

The Mask E-Guard is designed to relieve tension and strain from the ears when wearing face masks.

The unique design attaches to the mask so the elastic is positioned away from the ears.

### Features and Benefits

- Soft comfortable material
- Multiple tags join together for "one size fits all"
- Smooth material which is easy to clean
- Ideal for use with disposable facemasks
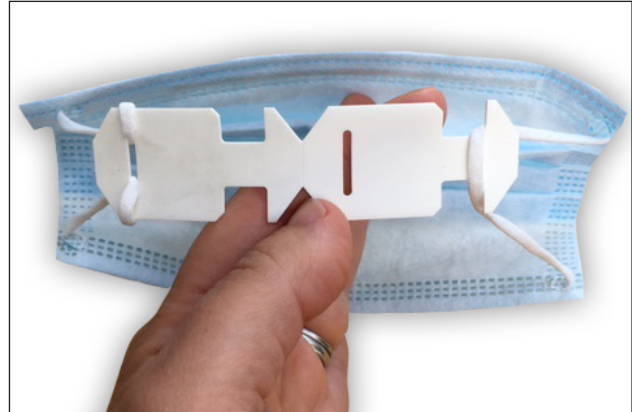- Reusable
- Customer branding available upon request



*image shows two pieces, there is an option to use 1, 2 or more pieces depending on headsize*



Mask E-Guard.



Mask E-Guard.



Mask E-Guard.

| TYPE | Packaging Unit | Article-No. |
| --- | --- | --- |
| Mask E-Guard Reel | 250 pcs | 111-04001 |
| Mask E-Guard Pack | 12 pcs | 111-04000 |

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## Mask E-Guard Pro

Comfort Strips for Masks

For a more flexible fit HellermannTyton has developed an ear guard made from an FDA compliant TPU material. The Mask E-Guard Pro provides a comfortable fit for disposable face masks and protects the ears from becoming sore. It is available in boxes of 100 or a convenient pack of 5.

**Features and Benefits**

- One size fits all – stretches to fit
- Easy to use even with long hair and if hair is tied back
- Soft comfortable material
- Smooth material which is easy to clean
- Ideal for use with disposable facemasks
- Reusable
- FDA compliant material
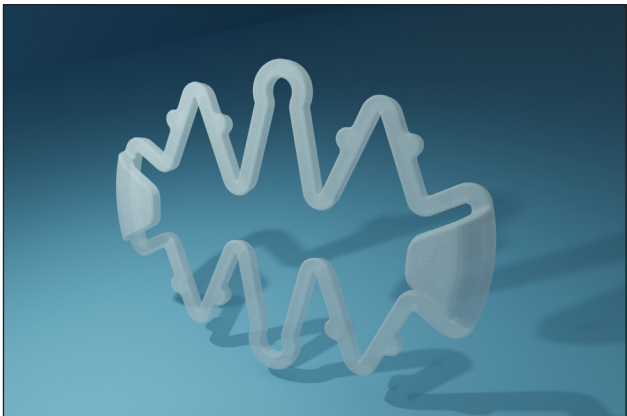


*Mask E-Guard Pro.*
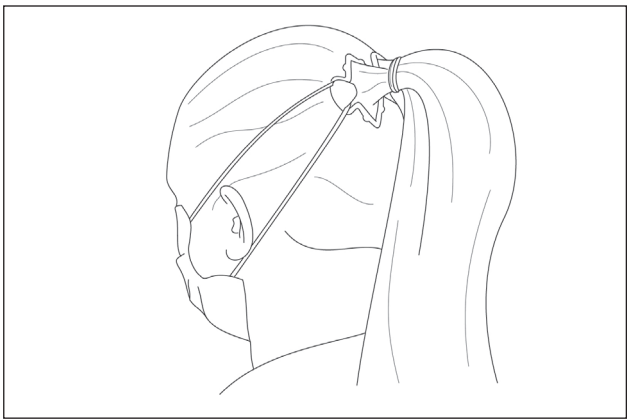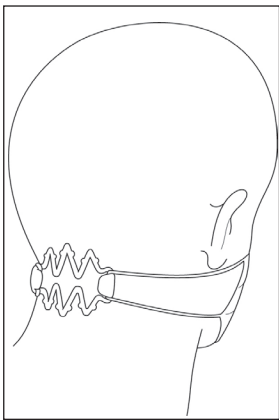




*Mask E-Guard Pro.*

| Material | Operating Temperatures | Colour | Material Properties |
|----------|------------------------|--------|---------------------|
| TPU | -40 -100ºC | Transparent | Easy to clean.<br>Abrasion resistant.<br>Good tear strength.<br>Good stability towards solvents and light.<br>Oxidation resistant.<br>Anti-Microbial. |

*subject to successful trial.

| TYPE | Description | Pack Quantity | Colour |
|------|-------------|---------------|--------|
| Mask E-Guard Pro Bag | 5 pieces packed in a euro slot bag | 5 | Clear |
| Mask E-Guard Pro Bulk | 100 pieces packed loose in a box | 100 | Clear |

*Anti-Microbial option also available upon request

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## Easy Door™

Multifunctional antimicrobial handle

EasyDoor™ is a multifunctional handle containing an antimicrobial additive.

EasyDoor™ can be considered as a Personal Protective Equipment (PPE) that protects both the user and people around by limiting hand transmission of bacteria, viruses, fungi, ...

This handle accessory is a perfect complement to the barrier gestures put in place today:

### Features and Benefits

- Re-useable and easy to clean
- (dishwasher, hydro alcoholic gel/spray or disinfectant cleaning)
- Reduce skin problems by reducing repetative hand washing
- Antimicrobial additive
- Permanently prevents the proliferation of bacteria, fungi and some viruses
- Washable
- Multifunctional
- Adaptation to all types of situation gel/spray, disinfectant (chemical or wipes) - Hygienic
- Re-Usable - No waste
- Ability to clip to a belt
- Lightweight and spacesaving

### Antimicrobial action incorporated into the formulation

An antimicrobial additive has been incorporated into the formulation of the plastic used to manufacture EasyDoor™.

This antimicrobial additive makes surfaces inhospitable to pathogenic micro-organisms and inhibits the growth of bacteria and moulds.

This silver-based additive has antibacterial and antifungal properties: 99% of bacteria removed in 2 hours.

This additive has shown good performance on the respiratory H1N1 virus: 99% of virus removed in 2 hours.
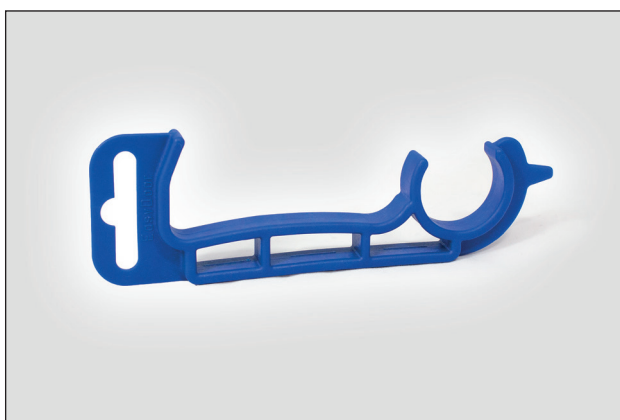
### Recommendations

Attach the EasyDoor™ to your belt using the euroslot to avoid contact with personal objects in your pockets.

Clean EasyDoor™ regularly with a suitable disinfectant:
- Hydroalcoholic gel/spray
- Disinfectant (chemical or wipe)
- Dishwasher


EasyDoor™


EasyDoor™


EasyDoor™

| Properties | Values |
|---|---|
| Material | PP glass-fiber reinforced (20% with an antimicrobial additive |
| Dimensions | 141 x 44mm |
| Weight | 15 grams |

| Description | Article-No. |
|---|---|
| Bulk box of 1000 | 148-00160 |
| Bag of 10 | 148-00162 |

## Don't touch anything, EasyDoor™ does it for you!

## Hela-Vis Visor

High Quality PPE Visor

High Quality Visor, UK manufacturer and approved to EN116-02.

**Features and Benefits**

- High quality robust construction
- Reusable
- Minimal number of components
- Foam insert for comfort
- Anti-Mist
- Supplied flat pack for assembly by user
- 100% UK manufactured product
- Approved to EN166-02



*Hela-Vis Visor*



*Hela-Vis Visor*

| Description | Article-No. |
|---|---|
| Hela-Vis Visor | 902-01886 |

1. Interpretation

1.1 In these Conditions:

"ACKNOWLEDGEMENT OF ORDER" shall mean the document by which the Seller or its authorised representative accepts the Order.

"BUYER" shall mean the purchaser of the Goods from the Seller.

"BUYER'S SPECIFICATION" means any variation, modification or amendment to Seller's specification as requested by Buyer and agreed between the parties in accordance with clause 2.3 and/or as identified in the Acknowledgement of Order.

"CONDITIONS" means the terms and conditions of sale set out herein and includes any special terms and conditions included in the Acknowledgement of Order.

"CONTRACT" shall mean the contract for the sale and purchase of the Goods made pursuant to these Conditions.

"DELIVERY" shall mean delivery of the Goods or any part of them in accordance with clause 6.1 of these Conditions.

"DELIVERY DATE" shall mean the date or period for Delivery set out in an Acknowledgement of Order or which is otherwise agreed by the Seller and the Buyer.

"FORCE MAJEURE" shall mean any circumstances beyond the reasonable control of the Seller.

"GOODS" shall mean the goods which the Seller has agreed to supply to the Buyer pursuant to these Conditions.

"INFORMATION" shall mean any and all IPR, technical or commercial data, know-how, show-how, formulae, processes, designs, photographs, drawings, specifications, details of customers and suppliers, pricing information, samples, prototypes and other sensitive business information and any other information of a confidential nature together with any experimental or test data and results produced by the Seller as a result of it carrying out necessary tests for the purposes of performing the Contract which either directly or indirectly is disclosed by or on behalf of the Seller to the Buyer or to any person on behalf of the Buyer orally, in writing, by physical embodiment, by data transmission or in any other way.

"INTELLECTUAL PROPERTY RIGHTS" ("IPR") shall mean all patents, trade marks, service marks, design rights (whether patentable, registrable or otherwise), applications for any of the foregoing copyright, know-how, trade or business names, rights in databases, topography rights and other similar rights or obligations whether registrable or not in any country (including, but not limited to the United Kingdom).

"LOSS" shall mean all actions, claims, demands, losses (direct, indirect, consequential or otherwise), expenses, costs, actions and proceedings.

"ORDER" shall mean the Buyer's order for Goods.

"SELLER" shall mean HellermannTyton Ltd, a company registered in England and Wales under company number 05652018 and having its registered office at Griffin House, 135 High Street, Crawley, West Sussex, RH10 1DQ.

"SPECIFICATION" shall mean the description of the Goods set out in the Acknowledgement of Order pursuant to clause 3.4 including any variation, modification or amendment to specification as a consequence of Buyer's Specification and "Specification" and "Buyer's Specification" shall be construed accordingly.

1.2 Any reference in these Conditions to any provision of a statute shall be construed as a reference to that provision as amended re-enacted or extended at the relevant time.

1.3 The headings in these Conditions are for convenience only and shall not affect their interpretation.

1.4 In these Conditions "Incoterms" means the international rules for the interpretation of trade terms of the International Chamber of Commerce 2010 as amended or republished from time to time (Incoterms® 2010). Unless the Contract otherwise requires any terms or expression which is defined in or given a particular meaning by the provisions of Incoterms shall have the same meaning in these Conditions, but if there is any conflict between the provisions of Incoterms and these Conditions the latter shall prevail.

2. Basis of Sale

2.1 These Conditions together with the Seller's Acknowledgement of Order apply to all Contracts between the Seller and the Buyer and shall prevail and be effective notwithstanding any variations or additions whether contained or referred to in the Buyer's order, or other document submitted by the Buyer including without limitation any standard conditions of purchase of the Buyer, acceptance of quotation or in correspondence or elsewhere, or implied by trade, custom, practice or course of dealing, and shall supersede all other and any prior promises, representations or undertakings.

2.2 Where the Buyer purchases Goods from the Seller which include electrical and electronic equipment (as defined by the Waste Electrical and Electronic Equipment Regulations 2006 as amended or re-enacted from time to time ("WEEE")), he does so on the understanding that he will, at his own expense, properly collect, treat, recover and dispose of it in an environmentally sound manner, or arrange for the proper collection, treatment, recovery and environmentally sound disposal of such electrical or electronic equipment in accordance with the requirements of WEEE. Further, the Buyer agrees that where the electrical and electronic equipment referred to above is intended to replace electrical or electronic equipment that was supplied to the Buyer prior to the 13 August 2005, it will be responsible for the environmentally sound collection, treatment, recovery and disposal of that electrical and electronic equipment being replaced and shall not ask the Seller to take it back in order to arrange the same.

2.3 No variation to these Conditions shall be binding unless agreed in writing by an authorised representative of the Seller.

2.4 The Seller's employees or agents are not authorised to make any representations or recommendations concerning the Goods unless confirmed by a duly authorised representative of the Seller in writing. In entering into the Contract the Buyer acknowledges that it does not rely on and waives any claim for breach of any such representations which are not so confirmed. For the avoidance of doubt, nothing herein contained shall be deemed to exclude the Seller's liability due to fraud or fraudulent misrepresentation.

2.5 Any typographical clerical or other error or omission in any sales literature quotation price list Acknowledgement of Order invoice or other documentation or information issued by the Seller shall be subject to correction without any liability on the part of the Seller.

3. Orders and Specifications

3.1 Every acceptance by the Buyer of any quotation given by the Seller shall be deemed an offer by the Buyer to purchase Goods from the Seller and will not be deemed to be accepted by the Seller until a duly authorised representative of the Seller has provided an Acknowledgement of Order in relation to such offer by the Buyer.

3.2 No Order submitted by the Buyer shall be deemed to be accepted by the Seller unless and until confirmed by an Acknowledgement of Order.

3.3 The Buyer shall be responsible to the Seller for ensuring the accuracy of the terms of any Order (including any applicable Specification or Buyer's Specification) submitted by the Buyer and for giving the Seller any necessary information relating to the Goods within a sufficient time to enable the Seller to perform the Contract in accordance with its terms.

3.4 The quantity quality and description of and any Specification for the Goods shall be those set out in the Seller's Acknowledgement of Order.

3.5 If the Goods are to be manufactured by the Seller in accordance with the Buyer's Specification:

3.5.1 the Buyer shall indemnify the Seller against all Loss suffered by the Seller in connection with any claim by a third party that the manufacture and/or supply of the Goods to such Buyer Specification or instructions infringes the rights of any third party; and

3.5.2 the Buyer shall be responsible for supplying reliable and accurate information to the Seller (including, without limitation, drawings, plans and designs) to enable the Seller to manufacture the Goods to the Buyer's Specification. The Seller shall be entitled to assume that all information supplied by the Buyer is true, accurate, complete and fit for the purpose for which it is supplied and that the Seller can rely on the same. The Seller shall not be liable for any Loss or delay in Delivery of the Goods which directly or indirectly arises from the Buyer's failure to supply accurate information at all or on time.

3.6 The Seller reserves the right to make any changes in the Specification of the Goods which are required to conform with any applicable safety or other statutory requirements and/or where such changes do not materially affect the quality or performance of the Goods. For the avoidance of doubt and subject to clause 10.1, the Seller provides no implied warranties in relation to Goods supplied to the Buyer's Specification.

3.7 No Order which has been accepted by the Seller by an Acknowledgement of Order may be cancelled by the Buyer except with the agreement in writing of the Seller and on terms that the Buyer shall indemnify the Seller in full against all Loss incurred by the Seller as a result of cancellation.

4. Price of the Goods

4.1 The price shall be the price in the Acknowledgement of Order ("Price").

4.2 The Seller reserves the right by giving notice to the Buyer at any time before Delivery to increase the Price to reflect any increase in the cost to the Seller which is due to any factor beyond the control of the Seller (such as without limitation any foreign exchange fluctuation, currency regulation alteration of duties significant increase in the costs of labour materials or other costs of manufacture), any change in Delivery Dates quantities or Specifications for the Goods which is requested by the Buyer or any delay caused by any instructions of the Buyer or failure of the Buyer to give the Seller adequate information or instructions.

4.3 Except as otherwise stated in an Acknowledgement of Order all prices are given by the Seller for Delivery as defined in clause 6.1. Where the Seller agrees to deliver the Goods otherwise than as defined in clause 6.1 the Buyer shall be liable to pay the Seller's charges for transport packaging and insurance where requested.

4.4 The price is exclusive of any applicable value added tax (which will be applied in accordance with the legislation in force at the tax point date) and which the Buyer shall be additionally liable to pay to the Seller.

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## 5. Terms of Payment

5.1 Subject to any special terms agreed in an Acknowledgement of Order the Seller shall be entitled to invoice the Buyer for the Price on Delivery immediately the Goods have been despatched, when they are ready for despatch but are prevented or delayed from being despatched due to Force Majeure or the day the Goods are put out ready for collection (whichever event occurs the earliest).

5.2 The Buyer shall pay the Price without deduction within 30 days of the date of the Seller's invoice notwithstanding that Delivery may not have taken place and the property in the Goods has not passed to the Buyer. The time of payment of the Price shall be of the essence of the Contract. Receipts for payment will be issued only upon request.

5.3 If the Buyer fails to make any payment in accordance with clause 5.2 then without prejudice to any other right or remedy available to the Seller the Seller shall be entitled to:-

5.3.1 cancel the contract or suspend any Deliveries to the Buyer;

5.3.2 appropriate any payment made by the Buyer to such of the Goods (or the goods supplied under any other contract between the Buyer and the Seller) as the Seller may think fit (notwithstanding any purported appropriation by the Buyer);

5.3.3 charge the Buyer interest on the amount unpaid at the rate of 3 percent per annum above HSBC Bank base rate from time to time until payment in full is made (a part of a month being treated as a full month for the purpose of calculating interest); and

5.3.4 demand payment of all outstanding balances from the Buyer whether due or not and/or cancel all outstanding Orders and/or decline to make further Deliveries (under this or any other contract between the Buyer and the Seller) or provision of services.

5.4 Except where insolvency laws provide otherwise the Buyer shall not be entitled to withhold or set off payment for Goods for any reason whatsoever. All Goods for which payment has not been made in accordance with clause 5.2 and which are held by the Seller at its premises are so held at the Buyer's risk.

## 6. Delivery

6.1 Except as otherwise stated in an Acknowledgement of Order delivery shall take place when the Seller places the Goods at the disposal of the Buyer at the Seller's premises and not loaded on any collecting vehicle.

6.2 Any Delivery Date is approximate only. The Seller shall not be liable for any Loss arising from any failure to deliver the Goods on the Delivery Date howsoever caused. Time for delivery shall not be of the essence unless previously agreed by the Seller in writing. The Goods may be delivered by the Seller in advance of the quoted delivery date upon giving reasonable notice to the Buyer.

6.3 The Buyer shall not be entitled to change the Delivery Date without the prior written consent of a duly authorised representative of the Seller.

6.4 Where delivery of the Goods is to be made by the Seller, the Seller reserves the right to deliver up to 10 per cent more or 10 per cent less than the quantity ordered provided that there is a pro rata adjustment to the Price to reflect the Goods actually delivered and the quantity so delivered shall be deemed to be the quantity ordered. Goods delivered in excess of such tolerance may be rejected by the Buyer provided that it serves notice of rejection within 10 working days of Delivery.

6.5 Where the Goods are to be delivered in installments each delivery shall constitute a separate contract and failure by the Seller to deliver any one or more of the installments in accordance with these Conditions or any claim by the Buyer in respect of any one or more installments shall not entitle the Buyer to treat the Contract as a whole as repudiated.

6.6 Subject to clause 10.6 if the Seller fails to deliver the Goods for any reason other than Force Majeure or due to Buyer's fault and the Seller is accordingly liable to the Buyer, the Seller's only liability shall be limited to the excess (if any) of the cost to the Buyer (having used its best endeavours to replace the Goods by purchasing them in the cheapest available market) of purchasing similar goods to replace those not delivered.

6.7 If the Buyer fails to take Delivery on the Delivery Date then without prejudice to any other right or remedy available to the Seller the Seller may:

6.7.1 store the Goods until actual delivery and charge the Buyer for the costs (including insurance) of storage; or

6.7.2 treat the Contract as repudiated by the Buyer and without prejudice to any other right it may have against the Buyer the Seller shall be entitled to resell the Goods and be indemnified by the Buyer for any Loss which it suffers.

## 7. Risk and Property

7.1 Risk of damage to or loss of the Goods shall pass to the Buyer on Delivery of the Goods;

7.2 Notwithstanding Delivery and the passing of risk in the Goods or any other provision of these Conditions the property in the Goods shall remain with the Seller until the Seller has received in cash or cleared funds payment in full of the Price and any other monies due to the Seller in respect of the Goods and all other goods agreed to be sold by the Seller to the Buyer for which payment is then due under the Contract or any other contract between the Seller and the Buyer (including without limitation costs of Delivery).

7.3 Until such time as the property in the Goods passes to the Buyer the Buyer shall hold the goods as the Seller's fiduciary agent and bailee and shall keep the Goods separate from those of the Buyer and third parties and properly stored protected and insured and identified as the Seller's property.

7.4 Until such time as the property in the Goods passes to the Buyer the Buyer shall be entitled to resell or use the Goods in the ordinary course of its business but shall account to the Seller for the proceeds of sale or otherwise of the Goods whether tangible or intangible including insurance proceeds and shall keep all such proceeds separate from any monies or property of the Buyer and third parties and in the case of tangible proceeds properly stored protected and insured.

7.5 If the Goods are prior to sale by the Buyer made up or incorporated in or mixed with other goods, then if they remain separately identifiable the Seller shall retain property and title thereof and if they do not remain separately identifiable the Seller shall become a joint owner of the goods in or which the Goods are incorporated or mixed in such proportion as the value of the Goods bears to the value of the Goods in which the Goods are so incorporated or mixed.

7.6 If the Buyer sells the Goods or the goods in which the Goods have been incorporated or mixed the sale shall be on behalf of the Seller as the joint owner thereof as the case may be and the proceeds of any such sale for the Seller's share thereof if the sale is of jointly owned property shall be held on trust for the Seller and in a separate identified account.

7.7 Until such time as the property in the Goods passes to the Buyer (and provided the Goods are still in existence and have not been resold) the Seller shall be entitled at any time to require the Buyer to deliver up the Goods to the Seller and if the Buyer fails to do so forthwith to enter the premises of the Buyer or any third party where the Goods are stored and take possession of any Goods in which property remains in the Seller and remove and dispose of them as the Seller thinks fit. The Seller shall apply the proceeds of disposal (after deduction of all expenses) in discharge of the amount unpaid by the Buyer.

7.8 The Buyer shall not be entitled to pledge or in any way charge by way of security for any indebtedness any of the Goods which remain the property of the Seller without the Seller's consent but if the Buyer does so all moneys owing by the Buyer to the Seller shall (without prejudice to any other right or remedy of the Seller) forthwith become due and payable.

## 8. Confidentiality and IPR

8.1 The Buyer agrees and undertakes that it will keep confidential and will not disclose or use for any purpose (other than to perform its obligations under the Contract) any Information. Any Information supplied to the Buyer by the Seller shall at all times remain the property of the Seller. The Buyer shall not acquire any rights in the Information, which shall be returned to the Seller immediately upon request.

8.2 Unless otherwise agreed in writing all IPR in relation to the Goods including without limitation their method of manufacture shall vest in the Seller and remain the property of the Seller notwithstanding the purchase of the Goods by the Buyer and the Buyer undertakes to do all acts and/or enter into such agreements or deeds as the Seller shall require to vest any such IPR in the Seller.

8.3 Unless otherwise agreed in writing and notwithstanding that the Buyer may have contributed towards the costs of such items all tooling (and all IPR in relation to such tooling) produced or acquired by the Seller in relation to the manufacture of the Goods shall be and remain the property of the Seller.

## 9. Lien

9.1 In addition to any other right or lien to which the Seller may by law or pursuant to these Conditions be entitled, the Seller shall be entitled to a general lien on all the goods and the property of the Buyer in the Seller's possession and a right of sale of such goods and property at the Seller's sole discretion for any unpaid money due under the terms of the same or any other Contract between the Seller and the Buyer.

9.2 In addition and without prejudice to its other rights, the Seller shall have the right on fourteen days notice to the Buyer to put any goods or property over which it has a lien into a saleable state by any means whatsoever and (without prior notice to the Buyer) to sell such goods and shall be deemed the Buyer's agent for the purposes of effecting such sale. Out of the proceeds of the sale the Seller shall be entitled to retain a sum equivalent to all unpaid monies due to it from the Buyer as aforesaid together with the cost of putting the goods into a saleable state and the expenses of sale without prejudice to the Seller's right to recover the balance thereof from the Buyer.

## 10. Warranties and Liability

10.1 The Seller warrants that at Delivery the Goods will be free from defect in materials, workmanship and design (where designed by the Seller) provided that subject as aforesaid and expressly provided in these Conditions, and except where the Goods are sold to a person dealing as a consumer (within the meaning of the Unfair Contract Terms Act 1977) all warranties conditions or other terms implied by statute and/or common law are excluded to the fullest extent permitted by law.

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10.2 Where the Goods are sold under a consumer transaction (as defined by the Consumer Transactions (Restrictions on Statements) Order 1976) the statutory rights of the Buyer are not affected by these Conditions.

10.3 Any specification or sample supplied by the Seller in any brochure, catalogue, estimate or quotation provided by Seller shall be approximate only and for information and guidance only and shall not form part of the Contract.

10.4 Any claim based upon the quality or condition of the Goods or any failure of the Goods to meet the Specification ("Claim") by the Buyer shall (whether or not delivery is refused by the Buyer) be notified to the Seller in writing within 7 days from the date of delivery or (where the defect or failure was not apparent on reasonable inspection) within one month after discovery of the defect or failure. If delivery is not refused and the Buyer does not notify the Seller accordingly, the Buyer shall not be entitled to reject the Goods and the Seller shall have no liability in respect of such a Claim and the Buyer shall be bound to pay the Price as if the Goods had been delivered in accordance with the Contract. The Buyer shall not be entitled to make any Claim after the expiration of six months from the date of Delivery of the Goods.

10.5 Where any valid Claim in respect of any of the Goods is notified to the Seller in accordance with clause 10.4 the Seller shall be entitled to replace the Goods (or the part in question) free of charge or at the Seller's sole discretion refund to the Buyer the Price (or a proportionate part of the Price) but the Seller shall have no further liability to the Buyer and the Buyer shall have no other remedy.

10.6 The Seller shall have no liability to the Buyer in relation to non-delivery or short delivery of the Goods unless such non-delivery or short delivery is notified to the Seller in writing within fourteen days of the Delivery Date.

10.7 Where any valid Claim in respect of the Goods is notified to the Seller in accordance with clause 10.6 the Seller shall be entitled to deliver the Goods or the shortfall of the Goods, but the Buyer shall have no other remedy

10.8 Except in respect of death or personal injury caused by the Seller's negligence the Seller's total liability to the Buyer under these Conditions shall not exceed the total price of all Goods supplied hereunder.

10.9 The Seller shall have no liability to the Buyer under or arising out of or otherwise in connection with the Contract or the supply of Goods by the Seller to the Buyer and/or their use or resale by the Buyer in contract tort (including negligence or breach of statutory duty) or otherwise for loss of profit, business, contracts, revenues or anticipated savings or for any special indirect or consequential damage or loss of any nature or for the costs of recall of any Goods except as may otherwise be expressly provided for in these Conditions.

10.10 Notwithstanding any provision of these Conditions the Seller shall have no liability to the Buyer in respect of any defect in the quality of the Goods or the failure of the Goods to meet Specification where the defect or failure has arisen as a result of improper use, installation or storage of Goods or as a result of any act or omission of the Buyer (including but not limited to requiring Goods to be supplied to Buyer's Specification).

10.11 For the avoidance of doubt nothing herein contained shall be deemed to exclude or restrict the Seller's liability for death or personal injury arising due to the Seller's negligence.

10.12 Where any Claim is made under this clause 10 the Buyer grants the Seller or its agents the right to enter upon the Buyer's premises to inspect the Goods. Unless and until the Seller has been afforded an opportunity to examine the Goods no Claim will be accepted.

10.13 The Seller shall not be liable to the Buyer or be deemed to be in breach of the Contract by reason of any delay in performing or any failure to perform any of the Seller's obligations in relation to the Goods if the delay or failure was due to Buyer's fault or Force Majeure.

10.14 The Buyer shall indemnify the Seller against all Loss suffered by the Seller which arises as a result of the breach by the Buyer of any provision of the Contract or the negligence of the Buyer or any of its employees, agents or representatives.

11. Insolvency of Buyer

11.1 In the event that:

11.1.1 the Buyer makes any voluntary arrangement with its creditors or becomes subject to an administration order or (being an individual or firm) becomes bankrupt or (being a company) goes into liquidation (otherwise than for the purposes of amalgamation or reconstruction);

11.1.2 an encumbrancer takes possession or a receiver or administrator is appointed of any of the property or assets of the Buyer;

11.1.3 the Buyer ceases or threatens to cease to carry on business;

11.1.4 the Seller reasonably apprehends that any of the events mentioned above is about to occur in relation to the Buyer and notifies the Buyer accordingly; or

11.1.5 if the Buyer's jurisdiction is not in England and Wales any events similar to those described in clauses 11.1.1 to 11.1.4 occur then without prejudice to any other right or remedy available to the Seller the Seller shall be entitled to suspend further performance of the Contract for such time as it shall in its absolute discretion see fit or treat the Contract as wrongfully repudiated by the Buyer and forthwith terminate the Contract (either with or without notice to the Buyer) without any liability to the Buyer and if the Goods have been delivered but not paid for the Price shall become immediately due and payable notwithstanding any previous agreement or arrangement to the contrary.

12. Export Terms

12.1 Where the Goods are supplied for export from the United Kingdom the provision of this clause 12 shall (subject to any special terms in the Acknowledgement of Order or otherwise agreed in writing between the Buyer and the Seller) apply notwithstanding any other provision of these Conditions.

12.2 The Buyer shall be responsible for complying with any legislation or regulations governing the importation of the Goods into the country of destination and for the payment of any duties thereon. In particular, if any licence or consent of any government or other authority shall be required for the acquisition, carriage or use of the Goods by the Buyer the Buyer shall obtain the same at its own expense and if necessary produce evidence of the same to the Seller on demand. Failure to do so shall not entitle the Buyer to withhold or delay payment of the Price. Any additional expenses or charges incurred by the Seller resulting from such failure shall be for the Buyer's account.

12.3 Unless otherwise agreed in writing between the Buyer and the Seller the Goods shall be delivered ex-works (Incoterms® 2010) and the Seller shall be under no obligation to give the Buyer notice under section 32(3) of the Sale of Goods Act 1979.

12.4 Notwithstanding clause 5.2 payment of all amounts due to the Seller shall be made by irrevocable letter of credit opened by the Buyer in favour of the Seller and confirmed by a bank in the United Kingdom acceptable to the Seller or if the Seller has agreed in writing on or before acceptance of the Buyer's order to waive this requirement for any other agreed method of payment

13. General

13.1 The Seller shall be entitled to assign or subcontract all or any of its rights and obligations hereunder. The Buyer shall not be entitled to assign, transfer, subcontract or otherwise delegate any of its rights or obligations hereunder.
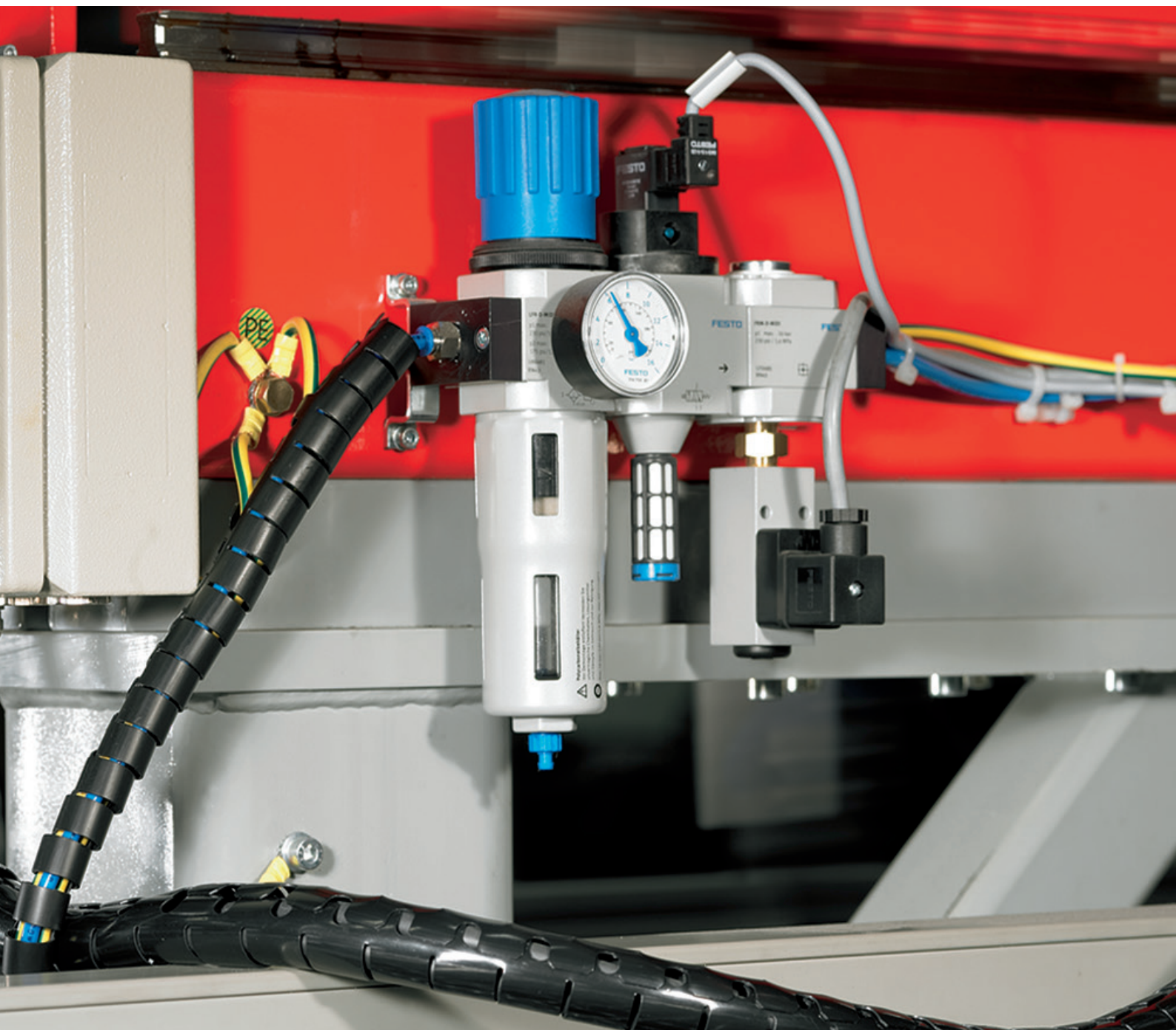
13.2 Any notice required or permitted to be given by either party to the other under these Conditions shall be given in writing at its registered office or principal place of business or such other address as may be notified for such purpose to the party giving notice.

13.3 No waiver by the Seller of any breach of Contract or any provision herein by the Buyer shall be considered as a waiver of any subsequent breach of the same or any other provision.

13.4 If any provision of these Conditions is held by any competent authority to be invalid or unenforceable in whole or in part the validity of the other provisions of these Conditions and the remainder of the provision in question shall not be affected thereby.

13.5 The parties hereto intend that no term of the Contract may be enforced by any person, entity or body that is not a party to the Contract.

13.6 The Contract shall be governed by the laws of England and Wales and the Buyer and the Seller hereby submit to the exclusive jurisdiction of the English Courts save with respect to enforcement where their jurisdiction shall be non-exclusive.

**HellermannTyton**

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