



## Durable Products for Hazardous Environments

Perfect bundling, fixing, protection and identification



Metal  
Systems

Durab

# HellermannTyton Metal Systems The products for harsh environments

## HellermannTyton – Ready for extreme conditions

Whenever the environment is harsh, the demand is for complete reliability. That's why HellermannTyton is the right partner by your side to meet the challenges of modern cable management. For over 75 years we've been using our experience and innovative drive for the benefit of our customers in markets throughout the world. And when it comes to producing specialised solutions, our customers know we're the best. It's because our metal systems offer the advantages our customers need to meet the daily business challenges. **Under extreme conditions, such as high temperature fluctuation, wet environments or whenever chemicals are a factor, your highest priority will be to protect your applications.** Our metal systems are based on the highest product quality and are manufactured to assure the utmost level of safety – even when the going gets tough!

Once you get to know the advantages of our metal products, you won't want to look further than HellermannTyton – because trust is built on quality.

## Discover the power of our cable management solutions

Our specialised full-metal products and tools offer easier, faster and longer lasting solutions. These allow you to meet any challenge, even under the most extreme conditions. Discover the sustained performance of:

- Stainless Steel Identification Products
- Bundling & Fixing Cable Tie Systems
- HelaGuard Cable Protection Systems
- Manual & Pneumatic Processing Tools





Markets  
& Industries

# Metal solution





# Engineered for your Industry Products designed to meet your demands

**Our experience in meeting customers' demands in many different industries has been integrated into all of our metal products.** Our products meet the requirements of shipping, offshore or underground installations, mining, aerospace, rail infrastructure, chemical industries and many more.



## The durability of our products starts with first-class materials

Our products are made using the highest quality stainless steel. They are engineered with smooth surfaces, rounded edges and the correct hardness for safe, quick and easy-to-use cables. By using coated stainless steel cable ties we are able to prevent corrosion of any type between dissimilar materials. Our products are sustainable, regardless of whether cable ties are exposed to extreme temperatures, harsh climates and forces of weathering, or salt. Reliability has been verified by international partners and institutes that, throughout the complete product life cycle, test and certify our products and the materials used to manufacture them.

Our products are tested according to the IEC 62275 specification, with certifications and approvals ranging from DNV and ABS to Bureau Veritas.



### Material overview stainless steel

Properties of 304/316 steel (similar to V2A/V4A steel)				
Material	Chem. Material Properties*	Operating Temperature	Flammability	
<b>Stainless Steel Type SS304 (SS304)</b>	<ul style="list-style-type: none"> <li>• Corrosion resistant</li> <li>• Weather resistant</li> <li>• Outstanding chemical resistance</li> <li>• Antimagnetic</li> </ul>	-80 °C to +538 °C	Non burning	
<b>Stainless Steel Type SS316 (SS316)</b>	<ul style="list-style-type: none"> <li>• Salt spray resistant</li> <li>• Corrosion resistant</li> <li>• Weather resistant</li> <li>• Outstanding chemical resistance</li> <li>• Antimagnetic</li> </ul>	-80 °C to +538 °C	Non burning	
Material	Chem. Material Properties*	Operating Temperature	Flammability	Operating Temperature Coating
<b>Stainless Steel Type SS316 (SS316), Polyester (SP)</b>	<ul style="list-style-type: none"> <li>• Salt spray resistant</li> <li>• Corrosion resistant</li> <li>• Weather resistant</li> <li>• Outstanding chemical resistance</li> <li>• Antimagnetic</li> </ul>	-80 °C to +538 °C	Halogen free	-50 °C to +150 °C



\*These details are only rough guide values. They should be regarded as a material specification and are no substitute for a suitability test. Please see our datasheets for further details.



# Advanced Materials and Testing Series for achieving maximum reliability



## Our Test Lab – Six ways we prove quality

We leave nothing to chance. To ensure the highest quality, our products and the materials used to manufacture them are subjected to continuous testing.



### Loop Tensile Strength Test

The test is carried out on a calibrated tensometer, whereby the cable tie is assembled around a mandrel with a specific diameter. This method measures the strength of an installed cable tie. HellermannTyton ties are among the strongest anywhere in the world.

### Heat-Aging Test

In a controlled Heat-Aging Test we simulate extreme conditions over a specified period of time. Our cable ties are made of the highest quality stainless steel (even the ball in the MBT-Series is made using stainless steel). Our products are designed to withstand the Heat-Aging Test, ensuring they are suitable for use in harsh environments.

### Weathering Test

In a controlled Weathering Test we simulate extreme conditions, such as the influence of strong ultraviolet light. Our cable ties are made of the highest quality stainless steel and are designed to withstand weathering, ensuring their suitability for use in harsh environments.

### Vibration & Shock Test

During this test, the cable ties are fixed as they would be in a practical situation (i.e. to a cable tray) and are subjected to various levels of vibration and shock loading. To pass this test, cables must remain fastened to the cable tray and show no signs of damage.

### Salt Spray Test

Our highest quality SS316 is subjected to a Salt Spray Test in a controlled test room. Ties of this type must complete the test without showing any sign of corrosion or stain. SS316 cable ties are therefore ideal for use in shipbuilding and offshore applications.

### Insertion Force Test

This test is carried out on a calibrated tensometer. The cable tie is assembled to pull the strap through the head of the tie. HellermannTyton cable ties have a very low insertion force, which means they are extremely easy to use in applications.



## Stainless Steel Identification Products



**Flexibility and mobility  
with powerful performance**

Discover M-BOSS Lite, a user friendly on-site printer that runs on a standard electrical supply. The stainless steel plates are embossed and can survive in the toughest environments.

→ page 10

## Bundling & Fixing Cable Tie Systems



**The ultimate solution  
for harsh environments**

Whether used indoors or outdoors, our stainless steel cable ties are reliable and offer a perfect solution. HellermannTyton bundling and fixing cable tie systems are manufactured from the finest materials, and design quality ensures sustainability and the long-term performance of your installation. Available in a wide range of widths and lengths, our systems offer a complete solution.

→ page 16



# Metal Products of Choice for your requirements wherever you work

## HelaGuard Cable Protection Systems



**Reliable mechanical protection  
for the toughest applications**

HelaGuard flexible metallic conduits and fittings provide secure protection for cables under the toughest conditions. Whether in stainless steel or galvanized steel, HelaGuard metallic conduits can be combined with a wide variety of robust stainless steel or brass fittings to provide the optimal system solution.

→ page 32

## Manual & Pneumatic Processing Tools



**Quick and easy installation  
in heavy industries**

HellermannTyton offers a range of tools for light, medium and heavy applications. Fitted with comfortable grips, these tools provide continuous high performance for fastening cable ties and ensure a flush cut-off to protect both the cable bundle and the safety of the user. These application tools provide a cost-effective way to install cable ties.

→ page 38



## Metal Plate Embossing Printer



- Simple to set up, easy to operate
- Fast print speeds
- Standard electrical supply
- Desktop size



**Inless Steel Identification Products**  
for your harsh identification needs



H-BOSS LITE  
MBHL 20X90





# M-BOSS Lite Printer

Your ideal on-site metal plate embossing printer



Space-saving and easy to use: M-BOSS Lite stainless steel embossing system.

## Stainless Steel Printer

### • M-BOSS Lite Printer

M-BOSS Lite is the ideal stainless steel marker plate embossing printer for low to medium volumes. Installation is quick and it is very easy to operate. Due to it being small in size, quiet in operation, and able to run off a normal electrical supply, it is very easy to locate within your business. All marker sizes will be printed in under a minute. Print up to 80 plates an hour. Once you emboss your plate, simply use 4.6 mm width MBT cable tie and a MK9SST hand tool to securely fix the marker plate to the cable.

The printer is delivered with the following 42 piece character set:

- Letters:** A B C D E F G H I J K L M N O P  
 Q R S T U V W X Y Z
- Numbers:** 0 1 2 3 4 5 6 7 8 9
- Symbols:** & - / . , ' "



The inside of M-BOSS Lite.

M-BOSS Lite Printer	
Power Supply	230 Volt/50 Hz
Cycle Time	Just over 1 second per character
Weight (Kg)	35 kg
L x H x W	650 x 500 x 260 mm





# M-BOSS Lite Marker Plates

Embossed markers for the harshest conditions

Identification



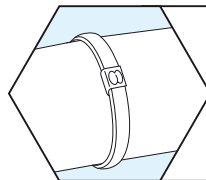
Identification for hazardous environments: M-BOSS Lite stainless steel markers.

## Stainless Steel Marker Plates

### • M-BOSS Lite Marker Plates

The M-BOSS Lite marker plates are designed to survive in harsh and hazardous environments where wind, wave and salt spray conditions are an important factor. The highest quality stainless steel is used to make the marker plates.

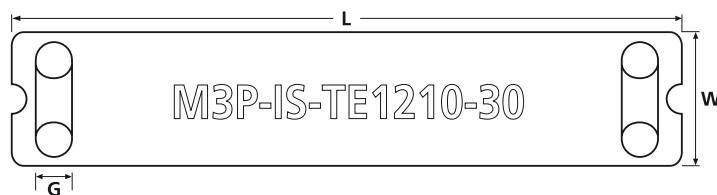
The design of the marker plates with the ergonomic cable tie entry points ensure quick and easy fixing of the marker plates in wet and cold conditions. Simply use 4.6 mm strap width metal cable ties and the easy-to-use one-handed MK9SST hand tool for a quick and safe marker installation.



#### Additional Info:

Easily fix your markers with **MBT Cable Ties** and our **MK9SST Hand Tool**.

M-BOSS Lite Marker Plates	
Material	<b>Stainless Steel Type SS316 (SS316)</b>
Operating Temperature	<b>-80 °C to +538 °C</b>



Article-No.	Type	Pack Cont.	Strap Width Max. (G)	Number of Characters	Width (W)	Length (L)
540-20000	<b>M-BOSS Lite</b>	1	–	–	260	650
540-20005	<b>MBML10X45</b>	1000	4.6	8	10	45
540-20004	<b>MBML10X90</b>	500	4.6	23	10	90
540-20002	<b>MBML20X45</b>	1000	4.6	24	20	45
540-20001	<b>MBML20X90</b>	500	4.6	69	20	90

All dimensions in mm. Subject to technical changes.



# Metal Plate Print Service Customised metal plates – embossed or laser marked



Customised printing to suit your needs.

## Stainless Steel Printing System

### • Embossed Metal Plates

The PrintShop facility is the ideal solution for producing crisp and clear embossed texts without the need to purchase an M-BOSS Lite printer.

#### Single line text - there are 3 options:

- 10 characters on a 60 mm printed tag (MBCE-DE10X60)
- 15 characters on a 80 mm printed tag (MBCE-DE10X80)
- 20 characters on a 100 mm printed tag (MBCE-DE10X100)

#### Double line text - there is 1 option:

- 40 characters (2 x 20 characters) on a 100 mm tag (MBCE-DE14X100)

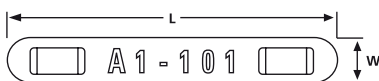
The markers can then be easily fanned out so that the installer can remove the required marker and install.

The following characters are available:

**Letters:** A B C D E F G H I J K L M N O P  
Q R S T U V W X Y Z

**Numbers:** 0 1 2 3 4 5 6 7 8 9

**Symbols:** & - / . ' ,



MBC

### • Laser Beam Marked Metal Plates and Ties

The specialised laser system will print on stainless steel metal plates and stainless steel cable ties. The laser will create a permanent, deep surface mark. Company logos, bar-codes, and most types of sequential text are possible.

As this printing service is designed to give you a custom printed product the information should be supplied electronically in excel format and a customer representative will contact you to agree the size of marker plate or tie that is suitable for you.

- Pre-marked to customer requirements
- Excellent character legibility
- Resistant to weathering and high levels of UV light
- Excellent resistance to a variety of hydrocarbons, chemicals, acids and alkalis
- Marking will endure for the lifetime of the cable tie or marker plate

Please contact your local HellermannTyton sales desk to enquire about emailing your request.

#### M-BOSS Marker Plates

Material	<b>Stainless Steel Type SS316 (SS316)</b>
Operating Temperature	<b>-80 °C to +538 °C</b>

Article-No.	Type	Fixing Method Identification	Strap Width Max. (G)	Number of Characters	Width (W)	Length (L)
540-10048	<b>MBCE-DE10X60</b>	Metal tie MLT, MAT, MBT	8	10	10	60
540-10049	<b>MBCE-DE10X80</b>	Metal tie MLT, MAT, MBT	8	15	10	80
540-10003	<b>MBCE-DE10X100</b>	Metal tie MLT, MAT, MBT	8	20	10	100
540-10050	<b>MBCE-DE14X100</b>	Metal tie MLT, MAT, MBT	8	40	14	100

All dimensions in mm. Subject to technical changes.



# Hellermark SSM

## Identification to go with pre-embossed marker tiles

Identification



Hellermark SSM.

### Stainless Steel Marking System, manual

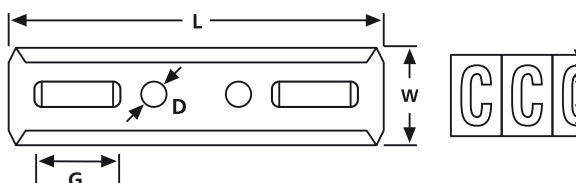
#### • Hellermark SSM, SSC

Hellermark stainless steel pre-embossed marker tiles are designed for use in harsh and hazardous conditions.

Hellermark is manufactured from grade 316 stainless steel which makes it ideal for use in aggressive environments.

Hellermark marker tiles (SSM) are inserted into the appropriate carrier (SSC) to make the required text and the ends closed with pliers. The carriers are then fastened using MBT or MAT stainless steel cable ties with a maximum strap width of 8 mm.

Alternatively, the carrier can be riveted or screw-fixed using the two 3-mm holes at each end of the carrier.



Carriers SSC

Article-No.	Type	Width (W)	Length (L)	Marker tiles per carrier	Pack Cont.
540-01046	<b>SSC46</b>	11	46	5	10
540-01056	<b>SSC56</b>	11	56	7	10
540-01082	<b>SSC82</b>	11	82	11	10
540-01106	<b>SSC106</b>	11	106	15	10
540-01134	<b>SSC134</b>	11	134	20	10
540-01286	<b>SSC286</b>	11	286	45	10

All dimensions in mm. Subject to technical changes.

Marker Tiles SSM

Article-No.	Marking Text	Article-No.	Marking Text	Article-No.	Marking Text
540-01600	0	540-01703	–	540-01130	M
540-01610	1	540-01720*	/	540-01140	N
540-01620	2	540-01010	A	540-01150	O
540-01630	3	540-01020	B	540-01160	P
540-01640	4	540-01030	C	540-01170	Q
540-01650	5	540-01040	D	540-01180	R
540-01660	6	540-01050	E	540-01190	S
540-01670	7	540-01060	F	540-01200	T
540-01680	8	540-01070	G	540-01210	U
540-01690	9	540-01080	H	540-01220	V
540-01700	+	540-01090	I	540-01230	W
540-01730	⏚	540-01100	J	540-01240	X
540-01701	.	540-01110	K	540-01250	Y
540-01702	,	540-01120	L	540-01260	Z

All dimensions in mm. Subject to technical changes. Package content of 200 pcs.

\* This symbol can also be used when rotated by 180°.





# Tie Solutions for Bundling & Fixing demanding and harsh environments

## High Performance Metal Cable Ties



- High class materials
- Made of stainless steel
- Longlasting durability
- High tensile strength
- Vibration resistant



# Metal Ball Locking Cable Ties (MBT)

A highly innovative solution from HellermannTyton

## Introduction to the intelligent Metal Ball Locking Technology used for cable ties

HellermannTyton offers a wide range of cable ties for use in different applications. By constantly refining our products and satisfying the ever changing demands of the market, various locking technologies have been developed.

### Metal Ball Locking Cable Tie MBT-Series

Made of stainless steel grades 304 or 316, the MBT range of cable ties have no serrations on the strap and are threaded parallel through the head, gliding under a metal ball-bearing locking mechanism.

### Metal Ball Locking Technology

The strap is locked into the head by means of the small ball-bearing. The ball locks into the small end of the wedged shaped housing, forming a positive locking with the strap. This cable tie is not suitable for rigid objects. Retraction of the ball-bearing (see drawing) is required into the small end of the wedged shaped housing to allow for a positive locking of the strap and also to make a flush cut of the end of the strap.

Retraction, therefore, cannot take place with the bundling of inflexible materials.

To protect sensitive objects, the LFPC channel should be laid as a buffer between the strap

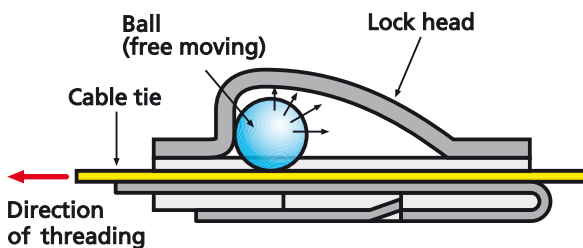
and the bundled material. This locking technology allows for minimum tensile strengths of up to 7000 Newton.

### The ideal combination

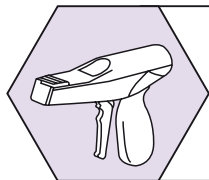
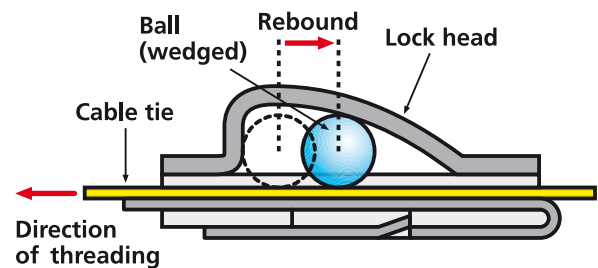
The MBT-Series (up to 7.9 mm) can be used for fixing stainless steel markers like M-BOSS Lite. This ensures a sustainable way of identification.

The MBT-Series (up to 7.9 mm) can also be used in combination with the stainless steel P-Mount. The mount is simple to install with a screw or bolt and ensures a durable fixation solution.

### 1. Initial position

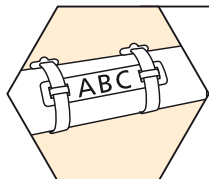


### 2. Ball locks cable tie by wedging



#### Additional Info:

There are various processing tools available for different diameters and purposes to apply the **MBT-Series**.



#### Additional Info:

**MBT cable ties** can also be used in combination with HellermannTyton's identification marker plates – **M-BOSS Lite** and **Hellermark**.



# HellermannTyton's Metal Cable Ties

From standard to specialist features

Bundling  
& Fixing

## Metal Ball Locking Tie (MBT)

**Unique patented self-locking ball mechanism with low insertion**

SS304 and SS316 grade available

Available in 4 different widths (up to 16 mm)

The unique tail design for a smooth insertion

Front tip and extra length of the strap underneath the head, improves the bundle conformance (even with small diameters)

Round edges and smooth surface

Available in an uncoated and fully coated version

## Metal Fold Locking Tie (MLT)

**Ear-lock type buckle design which can be released**

SS316 grade available

Available in 2 different widths (up to 10 mm)

Round edges and smooth surface

Available in an uncoated and fully coated version (halogen free polyester)

## Metal Application Tie with Raster Locking (MAT)

**Self locking mechanism with pawl and ratchet system**

SS316 grade available

Available in 2 different widths (up to 12 mm)

Low profile head without sharp edges

Round edges

Available in an uncoated and fully coated version (halogen free polyester)

## Metal Banding for Heavy Duty Application (AMT)

**Ear-lock type buckle design**

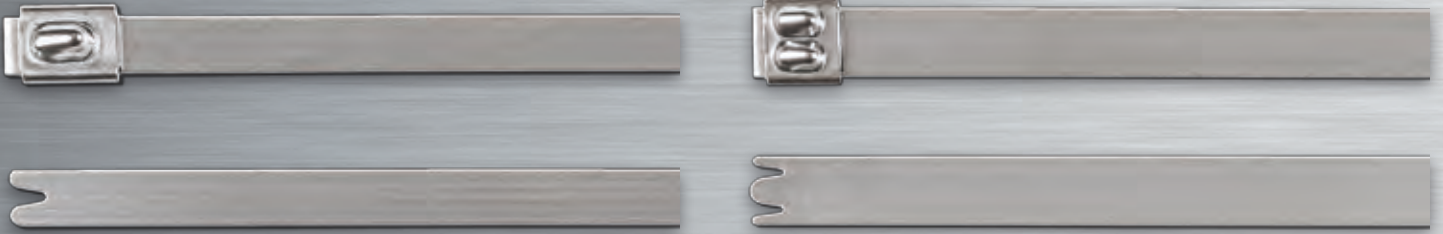
SS316 grade available

Available in 2 different thicknesses

Round edges and smooth surface

Available in an uncoated and fully coated version (halogen free polyester)

# MBT Cable Ties Discover the unique power of the ball locking mechanism



MBT\_SS, MBT\_HS.

MBT\_XHS.

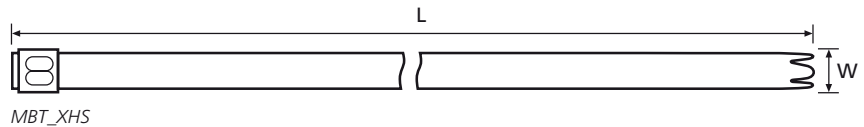
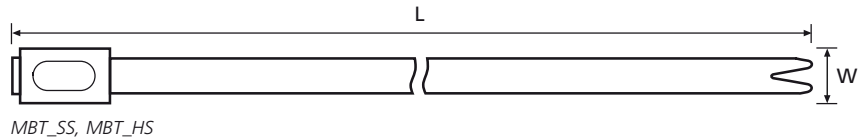
## Cable Ties with Ball Lock

### • MBT-Series

The MBT (Metal Ball bearing Ties) have a non-releasable locking mechanism that offers infinite adjustment along the length of the tie. These ties are available in both 316 and 304 grades of stainless steel.

### Application

- Use in most arduous conditions
- Where additional security, strength, fire resistance and chemical resistance properties are needed
- All industries, e.g. mass transit, shipbuilding, oil rigs, mining, chemical industries



Material	<b>Stainless Steel Type SS304 (SS304)</b>
Operating Temperature	<b>-80 °C to +538 °C</b>
Flammability	<b>Non burning</b>



Article-No.	Type	Length (L)	Width (W)	Bundle Max.	Min. Tensile Strength (N)	Material	Application Tools
Material Type SS304							
111-93058	<b>MBT5SS</b>	127	4.6	25	900	SS304	MK9SST, KST-STG200, MK9PSST, THT
111-93088	<b>MBT8SS</b>	201	4.6	50	900	SS304	MK9SST, KST-STG200, MK9PSST, THT
111-93148	<b>MBT14SS</b>	362	4.6	102	900	SS304	MK9SST, KST-STG200, MK9PSST, THT
111-93208	<b>MBT20SS</b>	521	4.6	152	900	SS304	MK9SST, KST-STG200, MK9PSST, THT
111-93278	<b>MBT27SS</b>	681	4.6	203	900	SS304	MK9SST, KST-STG200, MK9PSST, THT
111-93338	<b>MBT33SS</b>	838	4.6	254	900	SS304	MK9SST, KST-STG200, MK9PSST, THT
111-94088	<b>MBT8HS</b>	201	7.9	50	2000	SS304	MK9SST, KST-STG200, MK9PSST, THT
111-94148	<b>MBT14HS</b>	362	7.9	102	2000	SS304	MK9SST, KST-STG200, MK9PSST, THT
111-94208	<b>MBT20HS</b>	521	7.9	152	2000	SS304	MK9SST, KST-STG200, MK9PSST, THT
111-94278	<b>MBT27HS</b>	681	7.9	203	2000	SS304	MK9SST, KST-STG200, MK9PSST, THT
111-94338	<b>MBT33HS</b>	838	7.9	254	2000	SS304	MK9SST, KST-STG200, MK9PSST, THT
111-95148	<b>MBT14XHS</b>	362	12.3	102	2000	SS304	MK9SST, KST-STG200, MK9PSST
111-95208	<b>MBT20XHS</b>	521	12.3	152	2000	SS304	MK9SST, KST-STG200, MK9PSST
111-95278	<b>MBT27XHS</b>	681	12.3	203	2000	SS304	MK9SST, KST-STG200, MK9PSST
111-95338	<b>MBT33XHS</b>	838	12.3	254	2000	SS304	MK9SST, KST-STG200, MK9PSST

All dimensions in mm. Subject to technical changes. The MBT-Series (up to 7.9 mm) can be used in combination with the stainless steel P-Mount. The mount is simple to install with a screw or bolt and ensures a durable fixing solution.



Please note! Not all products listed on this page may have this approval.



# MBT Cable Ties

Bundling & Fixing

A highly innovative solution from HellermannTyton



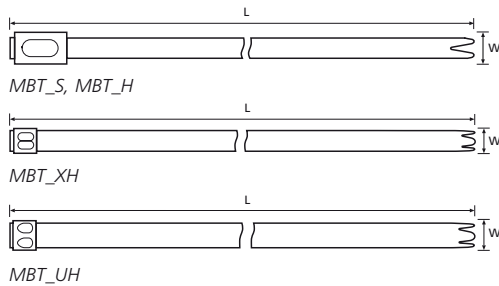
MBT\_S, MBT\_H.

MBT\_XH.

MBT\_UH.

## Cable Ties with Ball Lock

### • MBT-Series



Material	<b>Stainless Steel Type SS304 (SS304)</b>
Operating Temperature	<b>-80 °C to +538 °C</b>
Flammability	<b>Non burning</b>



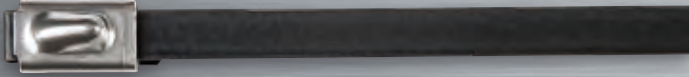
Article-No.	Type	Length (L)	Width (W)	Bundle Max.	Min. Tensile Strength (N)	Material	Application Tools
Material Type SS316							
111-93059	<b>MBT5S</b>	127	4.6	25	900	SS316	MK9SST, KST-STG200, MK9PSST, THT
111-93089	<b>MBT8S</b>	201	4.6	50	900	SS316	MK9SST, KST-STG200, MK9PSST, THT
111-93149	<b>MBT14S</b>	362	4.6	102	900	SS316	MK9SST, KST-STG200, MK9PSST, THT
111-93209	<b>MBT20S</b>	521	4.6	152	900	SS316	MK9SST, KST-STG200, MK9PSST, THT
111-93279	<b>MBT27S</b>	681	4.6	203	900	SS316	MK9SST, KST-STG200, MK9PSST, THT
111-93339	<b>MBT33S</b>	838	4.6	254	900	SS316	MK9SST, KST-STG200, MK9PSST, THT
111-94089	<b>MBT8H</b>	201	7.9	50	2000	SS316	MK9SST, KST-STG200, MK9PSST, THT
111-94149	<b>MBT14H</b>	362	7.9	102	2000	SS316	MK9SST, KST-STG200, MK9PSST, THT
111-94209	<b>MBT20H</b>	521	7.9	152	2000	SS316	MK9SST, KST-STG200, MK9PSST, THT
111-94279	<b>MBT27H</b>	681	7.9	203	2000	SS316	MK9SST, KST-STG200, MK9PSST, THT
111-94339	<b>MBT33H</b>	838	7.9	254	2000	SS316	MK9SST, KST-STG200, MK9PSST, THT
111-95149	<b>MBT14XH</b>	362	12.3	102	2700	SS316	MK9SST, KST-STG200, MK9PSST
111-95209	<b>MBT20XH</b>	521	12.3	152	2700	SS316	MK9SST, KST-STG200, MK9PSST
111-95279	<b>MBT27XH</b>	681	12.3	203	2700	SS316	MK9SST, KST-STG200, MK9PSST
111-95339	<b>MBT33XH</b>	838	12.3	254	2700	SS316	MK9SST, KST-STG200, MK9PSST
111-01301	<b>MBT14UH</b>	362	16.0	102	4100	SS316	MK9PSST, HDT
111-01302	<b>MBT20UH</b>	521	16.0	152	4100	SS316	MK9PSST, HDT
111-01303	<b>MBT27UH</b>	681	16.0	203	4100	SS316	MK9PSST, HDT
111-01304	<b>MBT33UH</b>	838	16.0	254	4100	SS316	MK9PSST, HDT
111-01305	<b>MBT43UH</b>	1092	16.0	330	4100	SS316	MK9PSST, HDT
111-01306	<b>MBT49UH</b>	1245	16.0	380	4100	SS316	MK9PSST, HDT

All dimensions in mm. Subject to technical changes. The MBT-Series (up to 7.9 mm) can be used in combination with the stainless steel P-Mount. The mount is simple to install with a screw or bolt and ensures a durable fixing solution.



Please note! Not all products listed on this page may have this approval.

# MBT Cable Ties Superior protection with high-grade stainless steel and specialist coating



MBT\_SFC.

MBT\_HFC.

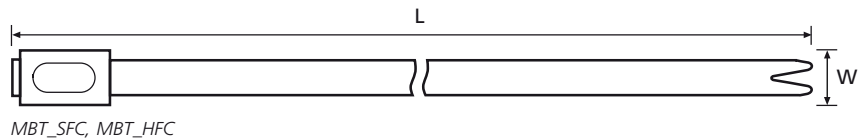
## Cable Ties with Ball Lock and Coating

### • MBT-FC-Series

The fully coated cable ties of the MBT-Series are made of stainless steel SS316 with a polyester coating. The coating offers various advantages: It gives the cable tie a smooth edge, provides more comfortable handling and stops contact erosion with dissimilar materials.

### Application

- Comfortable installation, especially for outdoor applications at low temperatures
- High tensile strength
- Careful bundling for sensitive applications



Material	<b>Stainless Steel Type SS316 (SS316), Polyester (SP)</b>
Operating Temperature Tie	<b>-80 °C to +538 °C</b>
Operating Temperature Coating	<b>-50 °C to +150 °C</b>
Flammability	<b>Non burning</b>



Article-No.	Type	Length (L)	Width (W)	Bundle Max.	Min. Tensile Strength (N)	Material	Application Tools
MBT Fully Coated							
111-00288	<b>MBT5SFC</b>	127	4.6	25	540	SS316, SP	MK9SST, KST-STG200, MK9PSST, THT
111-00289	<b>MBT8SFC</b>	201	4.6	50	540	SS316, SP	MK9SST, KST-STG200, MK9PSST, THT
111-00290	<b>MBT14SFC</b>	362	4.6	102	540	SS316, SP	MK9SST, KST-STG200, MK9PSST, THT
111-00291	<b>MBT20SFC</b>	521	4.6	152	540	SS316, SP	MK9SST, KST-STG200, MK9PSST, THT
111-00292	<b>MBT27SFC</b>	681	4.6	203	540	SS316, SP	MK9SST, KST-STG200, MK9PSST, THT
111-00293	<b>MBT33SFC</b>	838	4.6	254	540	SS316, SP	MK9SST, KST-STG200, MK9PSST, THT
111-00294	<b>MBT8HFC</b>	201	7.9	50	1020	SS316, SP	MK9SST, KST-STG200, MK9PSST, THT
111-00295	<b>MBT14HFC</b>	362	7.9	102	1020	SS316, SP	MK9SST, KST-STG200, MK9PSST, THT
111-00296	<b>MBT20HFC</b>	521	7.9	152	1020	SS316, SP	MK9SST, KST-STG200, MK9PSST, THT
111-00297	<b>MBT27HFC</b>	681	7.9	203	1020	SS316, SP	MK9SST, KST-STG200, MK9PSST, THT
111-00298	<b>MBT33HFC</b>	838	7.9	254	1020	SS316, SP	MK9SST, KST-STG200, MK9PSST, THT

All dimensions in mm. Subject to technical changes.



Please note! Not all products listed on this page may have this approval.



# MBT Cable Ties Superior protection with high-grade stainless steel and specialist coating

Bundling & Fixing

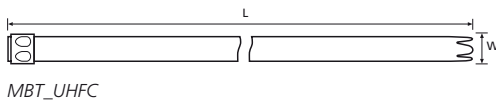
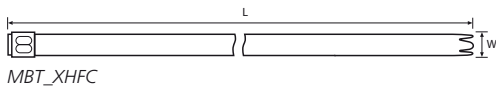


MBT\_XHFC.

MBT\_UHFC.

## Cable Ties with Ball Lock and Coating

- MBT-FC-Series



Material	<b>Stainless Steel Type SS316 (SS316), Polyester (SP)</b>
Operating Temperature Tie	<b>-80 °C to +538 °C</b>
Operating Temperature Coating	<b>-50 °C to +150 °C</b>
Flammability	<b>Non burning</b>



Article-No.	Type	Length (L)	Width (W)	Bundle Max.	Min. Tensile Strength (N)	Material	Application Tools
MBT Fully Coated							
111-00299	<b>MBT14XHFC</b>	362	12.3	102	1620	SS316, SP	MK9SST, KST-STG200, MK9PSST
111-01500	<b>MBT17XHFC</b>	434	12.3	125	1620	SS316, SP	MK9SST, KST-STG200, MK9PSST
111-00300	<b>MBT20XHFC</b>	521	12.3	152	1620	SS316, SP	MK9SST, KST-STG200, MK9PSST
111-01501	<b>MBT23XHFC</b>	575	12.3	168	1620	SS316, SP	MK9SST, KST-STG200, MK9PSST
111-00301	<b>MBT27XHFC</b>	681	12.3	203	1620	SS316, SP	MK9SST, KST-STG200, MK9PSST
111-01502	<b>MBT30XHFC</b>	754	12.3	225	1620	SS316, SP	MK9SST, KST-STG200, MK9PSST
111-00302	<b>MBT33XHFC</b>	838	12.3	254	1620	SS316, SP	MK9SST, KST-STG200, MK9PSST
111-01503	<b>MBT43XHFC</b>	1092	12.3	330	1620	SS316, SP	MK9SST, KST-STG200, MK9PSST
111-01504	<b>MBT49XHFC</b>	1245	12.3	380	1620	SS316, SP	MK9SST, KST-STG200, MK9PSST
111-01512	<b>MBT14UHFC</b>	362	16.0	102	2500	SS316, SP	HDT, MK9PSST
111-01513	<b>MBT17UHFC</b>	434	16.0	125	2500	SS316, SP	HDT, MK9PSST
111-01514	<b>MBT20UHFC</b>	521	16.0	152	2500	SS316, SP	HDT, MK9PSST
111-01515	<b>MBT23UHFC</b>	575	16.0	168	2500	SS316, SP	HDT, MK9PSST
111-01516	<b>MBT27UHFC</b>	681	16.0	203	2500	SS316, SP	HDT, MK9PSST
111-01517	<b>MBT30UHFC</b>	754	16.0	225	2500	SS316, SP	HDT, MK9PSST
111-01518	<b>MBT33UHFC</b>	838	16.0	254	2500	SS316, SP	HDT, MK9PSST
111-01519	<b>MBT43UHFC</b>	1092	16.0	330	2500	SS316, SP	HDT, MK9PSST
111-01520	<b>MBT49UHFC</b>	1245	16.0	380	2500	SS316, SP	HDT, MK9PSST

All dimensions in mm. Subject to technical changes.

# MBT Double Wrap Cable Ties With double ball lock technology for extreme performance



MBT\_XHD Double Wrap.



MBT\_UHD Double Wrap.

## Double Wrap Cable Ties with Ball Lock

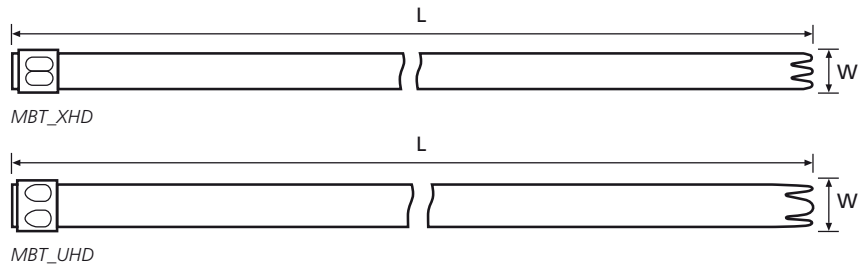
### • MBTXHD- / MBTUHD-Series

The stainless steel MBT-ties with double wrap operation can be wrapped around the bundle and inserted into the head twice. With this feature the metal tie reaches a very high tensile strength to carry enormous applied loads.

To ensure the metal tie delivers consistently high performance, the head comprises two locking balls for improved strength.

### Application

- Where a fixing requires an extraordinary high tensile strength



Material	<b>Stainless Steel Type SS316 (SS316)</b>
Operating Temperature	<b>-80 °C to +538 °C</b>
Flammability	<b>Non burning</b>



Article-No.	Type	Length (L)	Width (W)	Bundle Max.	Min. Tensile Strength (N)	Material	Application Tools
Material Type SS316							
111-01307	<b>MBT27XHD</b>	681	12.3	100	3600	SS316	MK9SST, KST-STG200, MK9PSST
111-01308	<b>MBT33XHD</b>	838	12.3	120	3600	SS316	MK9SST, KST-STG200, MK9PSST
111-01309	<b>MBT43XHD</b>	1092	12.3	160	3600	SS316	MK9SST, KST-STG200, MK9PSST
111-01310	<b>MBT49XHD</b>	1245	12.3	180	3600	SS316	MK9SST, KST-STG200, MK9PSST
111-01311	<b>MBT60XHD</b>	1524	12.3	230	3600	SS316	MK9SST, KST-STG200, MK9PSST
111-01312	<b>MBT27UHD</b>	681	16.0	100	7000	SS316	HDT, MK9PSST
111-01313	<b>MBT33UHD</b>	838	16.0	120	7000	SS316	HDT, MK9PSST
111-01314	<b>MBT43UHD</b>	1092	16.0	160	7000	SS316	HDT, MK9PSST
111-01315	<b>MBT49UHD</b>	1245	16.0	180	7000	SS316	HDT, MK9PSST
111-01316	<b>MBT60UHD</b>	1524	16.0	230	7000	SS316	HDT, MK9PSST

All dimensions in mm. Subject to technical changes.



Please note! Not all products listed on this page may have this approval.



# MBT Coated Double Wrap Cable Ties Combining high-tensile strength with specialist coating

Bundling & Fixing



MBT\_XHDFC Double Wrap Coated.

MBT\_UHDFC Double Wrap Coated.

## Double Wrap Cable Ties with Ball Lock and Coating

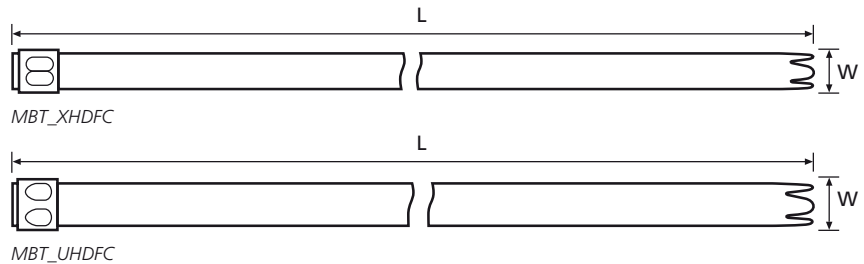
### • MBT-XHDFC- / MBT-UHDFC-Series

The polyester coating of these MBT-ties avoids contact corrosion between dissimilar materials.

The stainless steel MBT-ties with double wrap operation can be wrapped around the bundle and inserted into the head twice. With this feature the metal tie reaches a very high tensile strength to carry enormous applied loads. Also, to ensure the metal tie delivers consistently high performance, the head comprises two locking balls for improved strength.

### Application

- Where a fixing requires an extraordinary high tensile strength
- For a comfortable installation, especially for outdoor applications at low temperatures
- When a sensitive harness requires a careful bundling



Material	<b>Stainless Steel Type SS316 (SS316), Polyester (SP)</b>
Operating Temperature Tie	<b>-80 °C to +538 °C</b>
Operating Temperature Coating	<b>-50 °C to +150 °C</b>
Flammability	<b>Non burning</b>

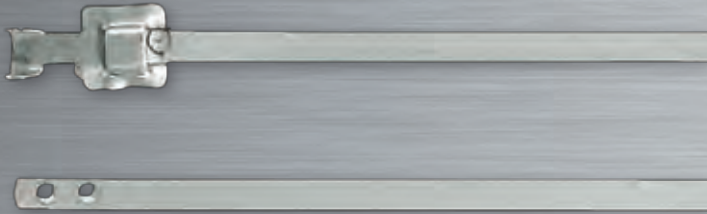


Article-No.	Type	Length (L)	Width (W)	Bundle Max.	Min. Tensile Strength (N)	Material	Application Tools
MBT Fully Coated							
111-01505	<b>MBT27XHDFC</b>	681	12.3	100	2500	SS316, SP	MK9SST, KST-STG200, MK9PSST
111-01506	<b>MBT33XHDFC</b>	838	12.3	120	2500	SS316, SP	MK9SST, KST-STG200, MK9PSST
111-01507	<b>MBT43XHDFC</b>	1092	12.3	160	2500	SS316, SP	MK9SST, KST-STG200, MK9PSST
111-01508	<b>MBT49XHDFC</b>	1245	12.3	180	2500	SS316, SP	MK9SST, KST-STG200, MK9PSST
111-01509	<b>MBT60XHDFC</b>	1524	12.3	230	2500	SS316, SP	MK9SST, KST-STG200, MK9PSST
111-01521	<b>MBT27UHDFC</b>	681	16.0	100	5000	SS316, SP	HDT, MK9PSST
111-01522	<b>MBT33UHDFC</b>	838	16.0	120	5000	SS316, SP	HDT, MK9PSST
111-01523	<b>MBT43UHDFC</b>	1092	16.0	160	5000	SS316, SP	HDT, MK9PSST
111-01524	<b>MBT49UHDFC</b>	1245	16.0	180	5000	SS316, SP	HDT, MK9PSST
111-01525	<b>MBT60UHDFC</b>	1524	16.0	230	5000	SS316, SP	HDT, MK9PSST

All dimensions in mm. Subject to technical changes.

# MLT Cable Ties

Your first choice for fold locking cable ties



MLT (uncoated).

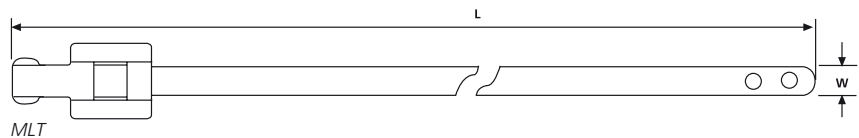


MLT\_C (coated).

## Cable Ties with Fold Locking (Releasable)

- MLT-Series
- MLT\_C

The MLT ties are made from a heavy duty type 316 stainless steel, once installed they can be opened and re-used if required.



Material Data MLT	
Material	<b>Stainless Steel Type SS316 (SS316)</b>
Operating Temperature	<b>-80 °C to +538 °C</b>
Flammability	<b>Non burning</b>



Material Data MLT_C	
Material	<b>Stainless Steel Type SS316 (SS316), Polyester (SP)</b>
Operating Temperature Tie	<b>-80 °C to +538 °C</b>
Operating Temperature Coating	<b>-50 °C to +150 °C</b>
Flammability	<b>Non burning</b>



Article-No.	Type	Length (L)	Width (W)	Bundle Max.	Min. Tensile Strength (N)	Material	Application Tools
MLT Uncoated							
111-94080	<b>MLT8SS5</b>	230	5.0	60	420	SS316	MTT4, HDT
111-94120	<b>MLT12SS5</b>	330	5.0	90	420	SS316	MTT4, HDT
111-94161	<b>MLT16SS5</b>	430	5.0	120	420	SS316	MTT4, HDT
111-91400	<b>MLT24SS5</b>	630	5.0	180	420	SS316	MTT4, HDT
111-95080	<b>MLT8SS10</b>	230	10.0	60	850	SS316	MTT4, HDT
111-95120	<b>MLT12SS10</b>	330	10.0	90	850	SS316	MTT4, HDT
111-91300	<b>MLT16SS10</b>	430	10.0	120	850	SS316	MTT4, HDT
111-95241	<b>MLT24SS10</b>	630	10.0	180	850	SS316	MTT4, HDT
MLT_C Coated							
111-91000	<b>MLT8SSC5</b>	230	5.26	60	420	SS316, SP	MTT4, HDT
111-91121	<b>MLT12SSC5</b>	330	5.26	90	420	SS316, SP	MTT4, HDT
111-91161	<b>MLT16SSC5</b>	430	5.26	120	420	SS316, SP	MTT4, HDT
111-91180	<b>MLT24SSC5</b>	630	5.26	180	420	SS316, SP	MTT4, HDT
111-91001	<b>MLT8SSC10</b>	230	10.26	60	850	SS316, SP	MTT4, HDT
111-91123	<b>MLT12SSC10</b>	330	10.26	90	850	SS316, SP	MTT4, HDT
111-91163	<b>MLT16SSC10</b>	430	10.26	120	850	SS316, SP	MTT4, HDT
111-91181	<b>MLT24SSC10</b>	630	10.26	180	850	SS316, SP	MTT4, HDT

All dimensions in mm. Subject to technical changes. The MLT-Series (up to 10 mm) can be used in combination with the stainless steel P-Mount. The mount is simple to install with a screw or bolt and ensures a durable fixing solution.



Please note! Not all products listed on this page may have this approval.



# MAT Cable Ties

## Simple, flexible raster locking fixings

Bundling  
& Fixing



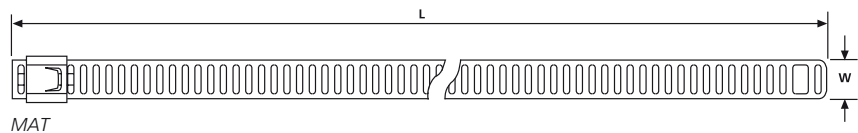
MAT (uncoated).

MAT\_C (coated).

### Cable Ties with Raster Locking

- MAT-Series
- MAT\_C

The MAT ties are similar in design to conventional 'plastic' cable ties and work on a ratchet system. These ties are available in type 316 stainless steel.



MAT

Material Data MAT	
Material	<b>Stainless Steel Type SS316 (SS316)</b>
Operating Temperature	<b>-80 °C to +538 °C</b>
Flammability	<b>Non burning</b>



Material Data MAT_C	
Material	<b>Stainless Steel Type SS316 (SS316), Polyester (SP)</b>
Operating Temperature Tie	<b>-80 °C to +538 °C</b>
Operating Temperature Coating	<b>-50 °C to +150 °C</b>
Flammability	<b>Non burning</b>



Article-No.	Type	Length (L)	Width (W)	Bundle Max.	Min. Tensile Strength (N)	Material	Application Tools
MAT Uncoated							
111-92080	<b>MAT8SS7</b>	230	7.0	60	445	SS316	MK9SST, KST-STG200
111-92120	<b>MAT12SS7</b>	330	7.0	90	445	SS316	MK9SST, KST-STG200
111-92160	<b>MAT16SS7</b>	430	7.0	120	445	SS316	MK9SST, KST-STG200
111-92240	<b>MAT24SS7</b>	630	7.0	180	445	SS316	MK9SST, KST-STG200
MAT_C Coated							
111-92004	<b>MAT8SSC7</b>	230	7.0	60	445	SS316, SP	MK9SST, KST-STG200
111-96120	<b>MAT12SSC7</b>	330	7.0	90	445	SS316, SP	MK9SST, KST-STG200
111-92162	<b>MAT16SSC7</b>	430	7.0	120	445	SS316, SP	MK9SST, KST-STG200
111-92200	<b>MAT24SSC7</b>	630	7.0	180	445	SS316, SP	MK9SST, KST-STG200

All dimensions in mm. Subject to technical changes. The MAT-Series (7 mm) can be used in combination with the stainless steel P-Mount. The mount is simple to install with a screw or bolt and ensures a durable fixing solution.



Please note! Not all products listed on this page may have this approval.

# AMT Metal Bandings

Ensures tight locking under vibration conditions



AMT.

## Metal Banding for Heavy Duty Application

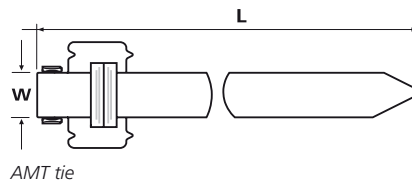
### • AMT-Series

This stainless steel cable tie has a pre-assembled buckle with locking ears and is available in two different strap thicknesses (0.4 mm and 0.75 mm) and five different lengths each (up to 1.5 meter). Due to its folding principle and locking ears, this cable tie is extremely suitable for applications with high vibrations.

Although the cable tie is a single band version, it is also possible to use it as a double wrap which makes it suitable for ultra heavy-duty applications. In combination with the LFPC (protective sleeve) it provides additional bundle protection against abrasion.

### Application

- Suitable for applications with high vibrations
- Heavy-duty applications



AMT tie



The high strength pre-assembled banding system – AMT tie.

Material	<b>Stainless Steel Type SS316 (SS316)</b>
Operating Temperature	<b>-80 °C to +538 °C</b>
Flammability	<b>Non burning</b>



Article-No.	Type	Length (L)	Width (W)	Thickness (T)	Bundle Max.	Min. Tensile Strength (N)	Material
111-00327	AMT5L16SB	500	16.0	0.4	110	2500	SS316
111-00328	AMT6L16SB	600	16.0	0.4	140	2500	SS316
111-00329	AMT8L16SB	800	16.0	0.4	205	2500	SS316
111-00330	AMT10L16SB	1000	16.0	0.4	270	2500	SS316
111-00331	AMT15L16SB	1500	16.0	0.4	430	2500	SS316
111-00338	AMT5H16SB	500	16.0	0.75	110	2500	SS316
111-00339	AMT6H16SB	600	16.0	0.75	140	2500	SS316
111-00340	AMT8H16SB	800	16.0	0.75	205	2500	SS316
111-00341	AMT10H16SB	1000	16.0	0.75	270	2500	SS316
111-00342	AMT15H16SB	1500	16.0	0.75	430	2500	SS316

All dimensions in mm. Subject to technical changes.



# LFPC Protective Sleeves The ideal cable protection against abrasion and vibration

Bundling  
& Fixing

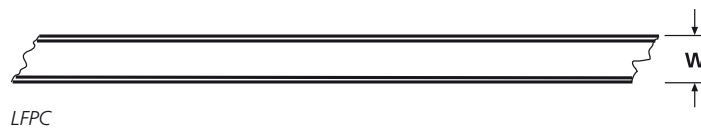


LFPC can be cut from the roll on every defined length.

## Protective Sleeve for Stainless Steel Ties

### • LFPC

Manufactured from Polyolefin the LFPC channel is a Halogen free material which is flame retardant. It is designed to cover the underside and edges of stainless steel ties to give full protection to the cable bundle.



### Application

- Cable protection against abrasion, vibration and shock
- Ideal for use in arduous conditions such as those found onboard ships, oil rigs or in nuclear power stations

Material	<b>Polyolefin (PO)</b>
Colour	<b>Black (BK)</b>
Operating Temperature	<b>-40 °C to +90 °C</b>
Flammability	<b>Limited Fire Hazard, Low generation of toxic gases and corrosive acid, Low smoke generation</b>
Specification	<b>London Underground RSE STD 013, DEF STAN 61-12 (Part 31)</b>



The fire protection properties of the material relate to the test performed on defined test samples. This is a test under laboratory conditions and not directly transferable to the product made from this material.

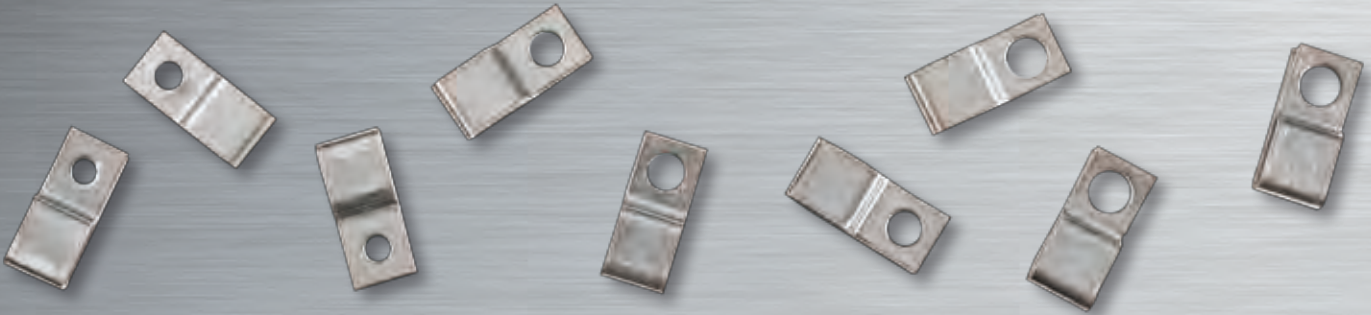
Article-No.	Type	For Ties	Width (W)	Material
111-93000	<b>LFPC70</b>	MBTS	7.0	Polyolefin (PO)
111-94000	<b>LFPC103</b>	MBTH	10.3	Polyolefin (PO)
111-95000	<b>LFPC150</b>	MBTXH	15.0	Polyolefin (PO)
111-00257	<b>LFPC83</b>	MBTH	8.3	Polyolefin (PO)
111-00253	<b>LFPC129</b>	MBTXH	12.9	Polyolefin (PO)
111-00254	<b>LFPC132</b>	MBTXH	13.2	Polyolefin (PO)
111-00255	<b>LFPC163</b>	AMT, MBTUH	16.3	Polyolefin (PO)

All dimensions in mm. Subject to technical changes.



Please note! Not all products listed on this page may have this approval.

# P-Mounts The one-hole fixing solution for heavy duty applications



P-Mounts.

## Stainless Steel P-Mounts

Stainless steel P-Mounts are ideal for use with our range of stainless steel ties. Designed as a one hole fixing solution, the mount is made of a high performance 316 grade stainless steel.

The range consists of three different hole sizes that are suitable for screw diameters of 4 mm, 5 mm and 6 mm. With a slot width of 10 mm, the P-Mounts can be used in combination with our range of MBT, MLT and MAT products. With its heavy duty design, the stainless steel P-Mount provides a sustainable and durable fixing solution.

**Note:** It is recommended that stainless steel screws/bolts are used to install the P-Mounts to prevent potential corrosion.

### Application

- Used in the most arduous of environments
- Where additional security, strength and fire resistance of a metal fixing is required (hazardous environments)
- Used for fixing cables, tubing, conduits and pipes

Material	<b>Stainless Steel Type SS316</b>
Operating Temperature	<b>-80 °C to +538 °C</b>
Flammability	<b>Non burning</b>



Article-No.	Type	Length (L)	Width (W)	Height (H)	Hole Diameter	Screw Diameter	Cable Tie Width Max.	Material
151-00837	SSPC4	23.0	10.2	4.5	4.2	4.0	10.0	SS316
151-00838	SSPC5	23.0	10.2	4.5	5.3	5.0	10.0	SS316
151-00839	SSPC6	23.0	10.2	4.5	6.3	6.0	10.0	SS316

All dimensions in mm. Subject to technical changes.



# MBT Kit The assortment box for a complete, accessible fixing solution

Bundling & Fixing



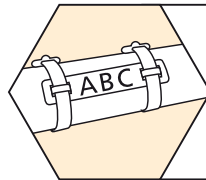
The MBT Kit.

## MBT Kit

The MBT Kit is an assortment box with five different sizes of the new MBT cable tie range, plus a simple tensioning tool for easy installation. The attractive reusable box ensures that the products are protected against damage and are easily accessible. Each compartment is labelled with a sticker that clearly identifies the dimensions of the MBT cable tie, all of which are made of 304 grade stainless steel material.

### Application

- Used by installers and contractors to install cables, tubing, conduits and identification



### Additional Info:

**MBT cable ties** can also be used in combination with HellermannTyton's identification marker plates – **M-BOSS Lite** and **Hellermark**.

### MBT Kit Content

<b>30 x MBT14SS</b> (111-93148)	
<b>30 x MBT14HS</b> (111-94148)	
<b>20 x MBT8SS</b> (111-93088)	<b>20 x MBT8HS</b> (111-94088)
<b>1 x THT Tool</b> (110-09970)	<b>20 x MBT5SS</b> (111-93058)

Article-No.	Type	Pack Cont.	Length (L)	Width (W)	Bundle Max.	Min. Tensile Strength (N)	Material
MBT Kit							
111-01422	<b>MBT5SS</b>	20	127	4.6	25	900	SS304
	<b>MBT8SS</b>	20	201	4.6	50	900	SS304
	<b>MBT14SS</b>	30	362	4.6	102	900	SS304
	<b>MBT8HS</b>	20	201	7.9	50	2000	SS304
	<b>MBT14HS</b>	30	362	7.9	102	2000	SS304
	<b>THT Tool</b>	1	–	–	–	–	–

All dimensions in mm. Subject to technical changes.

# Optimum mechanical protection

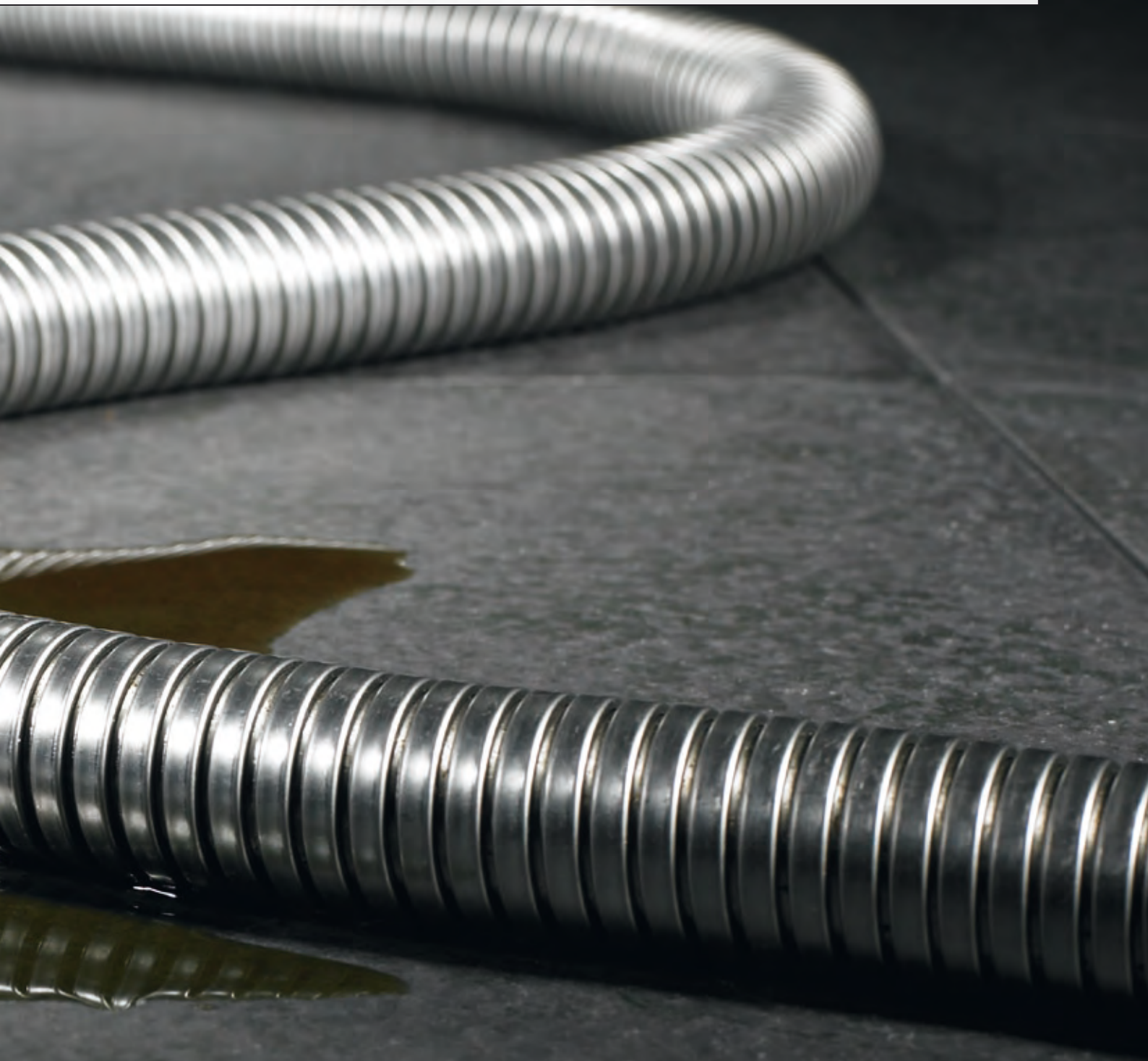
## Metallic Conduits And Fittings



- High-grade, heavy-duty galvanised and stainless steel conduits
- High compression, impact and tensile strength
- Large variety of diameters
- Sturdy fittings of brass and stainless steel



# HelaGuard Flexible Conduits for the most rigorous applications



# SC Galvanised Steel Conduits

## Combining flexibility with high strength



HelaGuard SC galvanised steel conduit.

### HelaGuard



#### • SC Galvanised Steel Conduit

General purpose flexible steel conduit. SC flexible steel conduits offer high compression, impact and tensile strength.

#### Application

- Machine building
- Plant construction
- Hydraulic and pneumatic conduits
- Under-floor wiring

Material	<b>Galvanised Steel (GS)</b>
Operating Temperature	<b>-100 °C to +300 °C</b>

Article-No.	Type	Nominal Ø	Outside Ø	Ø D	Bending Radius	Weight (g/m)	Reel Length (m)	Colour
166-30100	<b>SC10</b>	10	9.0	6.8	25	110	50	Metal (ML)
166-30101	<b>SC12</b>	12	13.0	10.2	30	113	50	Metal (ML)
166-30102	<b>SC16</b>	16	16.0	13.0	40	152	25	Metal (ML)
166-30103	<b>SC20</b>	20	20.5	16.9	45	295	25	Metal (ML)
166-30104	<b>SC25</b>	25	25.0	21.1	55	321	25	Metal (ML)
166-30105	<b>SC32</b>	32	32.0	28.1	70	450	25	Metal (ML)
166-30106	<b>SC40</b>	40	42.5	37.6	80	519	10	Metal (ML)
166-30107	<b>SC50</b>	50	53.0	48.4	90	802	25	Metal (ML)
166-30108	<b>SC63</b>	63	62.5	57.5	115	836	10	Metal (ML)
166-30109	<b>SC75</b>	75	77.0	70.0	150	1137	10	Metal (ML)

All dimensions in mm. Subject to technical changes. Other reel lengths available on request.



# SSC Stainless Steel Conduits

Reliable mechanical protection even in the most corrosive environments

Cable Protection



HelaGuard SSC stainless steel conduit offers superior mechanical protection in corrosive environments.

## Metallic conduits

### • SSC Stainless Steel Conduit

Corrosion-resistant, flexible, stainless steel conduit. SSC stainless steel (SS316) conduits offer high compression, impact and tensile strength as well as excellent resistance to corrosion.

Material	<b>Stainless Steel (SS316)</b>
Operating Temperature	<b>-100 °C to +400 °C</b>



### Application

- Offshore and shipbuilding
- Protection of sensor cables and instrumentation tubing
- Hydraulic and pneumatic conduits, particularly in corrosive environments
- Hospitals and clinics

Article-No.	Type	Nominal Ø	Outside Ø	Inside Ø	Bending Radius	Weight (g/m)	Reel Length (m)	Colour
166-30200	<b>SSC10</b>	10	9.0	6.8	25	110	25	Metal (ML)
166-30201	<b>SSC12</b>	12	13.0	10.2	30	126	25	Metal (ML)
166-30202	<b>SSC16</b>	16	16.0	13.0	40	162	25	Metal (ML)
166-30203	<b>SSC20</b>	20	20.5	16.9	45	202	25	Metal (ML)
166-30204	<b>SSC25</b>	25	25.0	21.1	55	300	25	Metal (ML)
166-30205	<b>SSC32</b>	32	32.0	28.1	70	340	25	Metal (ML)
166-30206	<b>SSC40</b>	40	42.5	37.6	80	410	10	Metal (ML)
166-30207	<b>SSC50</b>	50	53.0	48.4	90	516	10	Metal (ML)

All dimensions in mm. Subject to technical changes. Other reel lengths available on request.

# SC Metallic Fittings

## For a secure and reliable hold



HelaGuard SC-FM with fixed external thread.



HelaGuard SC-SM with swivel external thread.

### HelaGuard

#### • SC-FM Fixed External Thread, IP40

Fixed external thread, nickel plated brass.  
The two-part SC-FM fitting comprises shell and body and provides a secure hold of the conduit.

#### • SC-SM Swivel External Thread, IP40

Swivel external thread, nickel plated brass.  
The two-part SC-SM fitting comprises shell and body and provides a secure hold of the conduit.

Material	<b>Nickel Plated Brass (NPB)</b>
Colour	<b>Metal (ML)</b>
Operating Temperature	<b>-100 °C to +300 °C</b>



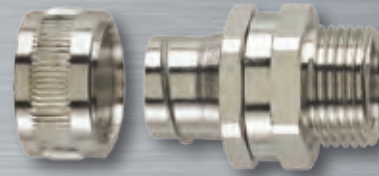
Article-No.	Type	Article-No.	Type	Conduit Ø	Thread Size (metric)	Thread Size (PG)	Pack Cont.
<b>SC-FM - Fixed External Thread</b>		<b>SC-SM - Swivel External Thread</b>					
166-30300	SC10-FM-M12	166-30400	SC10-SM-M12	10	M12	–	10
166-30311	SC10-FM-PG7	166-30410	SC10-SM-PG7	10	–	PG7	10
166-30301	SC12-FM-M16	166-30401	SC12-SM-M16	12	M16	–	10
166-30312	SC12-FM-PG7	–	–	12	–	PG7	10
166-30313	SC12-FM-PG9	166-30411	SC12-SM-PG9	12	–	PG9	10
166-30302	SC16-FM-M16	166-30402	SC16-SM-M16	16	M16	–	10
166-30303	SC16-FM-M20	166-30403	SC16-SM-M20	16	M20	–	10
166-30314	SC16-FM-PG11	166-30412	SC16-SM-PG11	16	–	PG11	10
166-30304	SC20-FM-M20	166-30404	SC20-SM-M20	20	M20	–	10
–	–	166-30413	SC20-SM-PG13	20	–	PG13.5	10
166-30315	SC20-FM-PG16	166-30414	SC20-SM-PG16	20	–	PG16	10
166-30305	SC25-FM-M25	166-30405	SC25-SM-M25	25	M25	–	10
166-30316	SC25-FM-PG21	166-30415	SC25-SM-PG21	25	–	PG21	10
166-30306	SC32-FM-M32	166-30406	SC32-SM-M32	32	M32	–	2
166-30317	SC32-FM-PG29	166-30416	SC32-SM-PG29	32	–	PG29	2
166-30307	SC40-FM-M40	166-30407	SC40-SM-M40	40	M40	–	2
166-30318	SC40-FM-PG36	166-30417	SC40-SM-PG36	40	–	PG36	2
166-30308	SC50-FM-M50	166-30408	SC50-SM-M50	50	M50	–	1
166-30319	SC50-FM-PG42	166-30418	SC50-SM-PG42	50	–	PG42	1
166-30320	SC50-FM-PG48	–	–	50	–	PG48	1
166-30309	SC63-FM-M63	166-30409	SC63-SM-M63	63	M63	–	1
166-30310	SC75-FM-M75	–	–	75	M75	–	1

All dimensions in mm. Subject to technical changes.

# SSC Stainless Steel Metallic Fittings

For a complete, corrosion-resistant installation

Cable  
Protection



HelaGuard SSC-FM with fixed external thread.

HelaGuard SSC-SM with swivel external thread.

## Fittings for metallic conduits



### • SSC-FM Fixed External Thread

Fixed external thread, stainless steel (SS316).  
The two-part SSC-FM fitting comprises shell and body and provides a secure hold of the conduit.

### • SSC-SM Swivel External Thread

Swivel external thread, stainless steel (SS316).  
The two-part SSC-SM fitting comprises shell and body and provides a secure hold of the conduit.

Material	<b>Stainless Steel (SS316)</b>
Colour	<b>Metal (ML)</b>
Operating Temperature	<b>-100 °C to +400 °C</b>

Article-No.	Type	Nominal Ø	Thread Size (metric)	Pack Cont.
SSC-FM				
166-30321	<b>SSC10-FM-M12</b>	10	M12	1
166-30322	<b>SSC12-FM-M16</b>	12	M16	1
166-30323	<b>SSC16-FM-M16</b>	16	M16	1
166-30324	<b>SSC20-FM-M20</b>	20	M20	1
166-30325	<b>SSC25-FM-M25</b>	25	M25	1
166-30326	<b>SSC32-FM-M32</b>	32	M32	1
166-30327	<b>SSC40-FM-M40</b>	40	M40	1
166-30328	<b>SSC50-FM-M50</b>	50	M50	1
SSC-SM				
166-30419	<b>SSC10-SM-M12</b>	10	M12	1
166-30420	<b>SSC12-SM-M16</b>	12	M16	1
166-30421	<b>SSC16-SM-M16</b>	16	M16	1
166-30422	<b>SSC20-SM-M20</b>	20	M20	1
166-30423	<b>SSC25-SM-M25</b>	25	M25	1
166-30424	<b>SSC32-SM-M32</b>	32	M32	1

All dimensions in mm. Subject to technical changes.



## Perfect Solution For Fast And Easy Working:



- Designed for perfect handling
- A tool for every cable tie
- Manual and pneumatic processing
- For heavy-duty purposes

# Manual & Pneumatic Processing Tools way to fasten your metal cable ties



# HDT-Tool Ergonomically designed tool for use with 16 mm MBT/AMT stainless steel ties



HDT-Tool.

## Manual Processing Tool

### • HDT-Tool

The Heavy Duty Tensioning tool is equipped with a two way nose to work with both MBT and AMT ties up to 16 mm wide, whether it is a single/double wrap or coated/uncoated cable tie. The handles can be set to different positions to ensure an ergonomic position for the operator. The integrated cutting mechanism is executed by pulling a lever. The nose piece is constructed so that the strap of the MBT tie cuts off flush with the head.



Special two way nose piece for MBT ties.



Special two way nose piece for AMT ties.

### Application

- Made for heavy-duty applications such as shipbuilding, oil rigs, mining and mass transit
- The tool provides a professional solution to install MBT and AMT ties

Article-No.	Type	Strap Width Max.	Strap Thickness Max.
110-40000	HDT	16.0	0.75

All dimensions in mm. Subject to technical changes.



# Processing Tools The best choice for applying stainless steel cable ties

Processing Tools



MK9PSST.

## Pneumatic Tensioning Tool for Metal Cable Ties

- MK9PSST up to 16 mm strap width

The MK9 Pneumatic Stainless Steel Tool (MK9PSST) is constructed with heavy-duty parts to ensure optimum performance in demanding environments. It is ideally designed to apply the stainless steel MBT-Series (Metal Ball Tie Series) up to 16 mm width.

The MK9PSST incorporates the next level of ergonomic improvement with its low weight, comfortable grip and easy trigger depression. Very durable, the pneumatic MK9PSST features adjustable, easy to read tension settings. The tool operates on air pressure between 3 and 6 bar.



MK9SST.

## Manual Processing Tool for Metal Ties MBT- and MAT-Series

- MK9SST up to 13 mm strap width

With its lightweight, ergonomic design, the MK9SST is an ideal tool for applying the MBT-Series stainless steel cable ties. Due to its design, the MK9SST enables work to be carried out without operator fatigue.

For easier handling the tensioning is fully adjustable by means of a quick two level control with an additional fine setting. This feature means that damage to the bundled materials is easily avoided. The cable ties are automatically cut off flush with the head when the preset tensioning level has been reached.



KST-STG200.

## Manual Processing Tool for Metal Ties MBT- and MAT-Series

- KST-STG200 up to 12.3 mm strap width

The KST-STG200 is a stainless steel cable tie tensioning and cutting tool. The tensioning strength can be adjusted while pulling the trigger, and the excess tail is cut off by pulling the cutter lever. As a hand tool, it is easy to handle and far more reliable than trying to tension the ties by hand.

Article-No.	Type	Strap Width Max.	Strap Thickness Max.	Weight (kg)
110-95350	MK9PSST	16.0	0.6	0.91
110-95000	MK9SST.9A	13.0	0.25	0.6
110-09950	KST-STG200	12.3	0.3	0.561

All dimensions in mm. Subject to technical changes.

## Processing Tools Ergonomic, lightweight tools for heavy duty applications



*MTT4.*

### Manual Processing Tool for Metal Ties MLT-Series

- **MTT4 up to 12 mm strap width**

The MTT4 tensioning tool is a lightweight manual processing tool which is easy to use for application of the MLT (releasable) series. The extended nose piece ensures the fixing length of the MLT cable tie. While using the ratchet system, the operator can easily cut off the tie on the correct length with the long cutter lever.



*THT-Tool.*

### Manual Processing Tool for MBT-Ties

- **THT-Tool**

The T-Handle Tensioning tool offers the capability to tension a range of MBT stainless steel cable ties in two different widths: 4.6 mm and 7.9 mm. The MBT tie can be applied and installed with the THT tool in the parallel position to the bundle. With its ergonomic T-grip design, the THT offers a high coiling force and thus a high tensile strength on the MBT cable tie. It does not cut off the remaining end but coils the tie after tensioning to ensure a safe, neat finish.

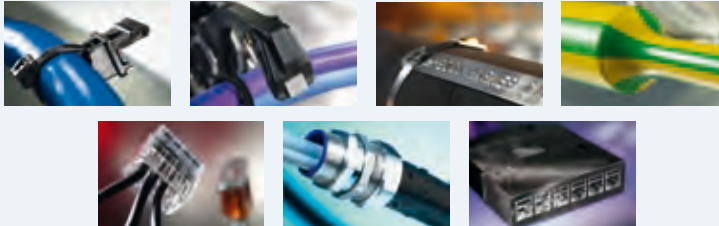
Article-No.	Type	Strap Width Max.	Strap Thickness Max.	Weight (kg)
110-04000	<b>MTT4.9A</b>	12.0	0.7	0.78
110-09970	<b>THT Tool</b>	7.9	0.25	0.145

All dimensions in mm. Subject to technical changes.

**HellermannTyton** One company –  
more than 60,000 cable management solutions



## Cable management solutions designed to meet your individual needs



HellermannTyton is a global manufacturer offering more than **60,000 high-performance** fastening, connecting, routing, protecting, and identifying **solutions** to diverse markets.

**Located in 34 countries**, HellermannTyton draws upon its global resources and market position to develop tailored solutions that offer exceptional design, performance, quality, and productivity improvements to the customer.

**Catalogue  
available in  
16 languages**



Let's go  
mobile ...

**HellermannTyton**

More than 60,000 solutions at  
your fingertips: The HellermannTyton App




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


**HellermannTyton**



# Expertise worldwide – you will find your local contact here:


## Europe


 **HellermannTyton GmbH – Austria**  
Obachgasse 6  
1221 Vienna  
Tel: +43 12 59 99 55-0  
Fax: +43 12 59 99 11  
E-Mail: office@HellermannTyton.at  
www.HellermannTyton.at

 **HellermannTyton – Czech Republic**  
E-Mail: office.cz@HellermannTyton.at  
www.HellermannTyton.cz

 **HellermannTyton AB – Denmark**  
Baldersbuen 15D 1. TV  
2640 Hedehusene  
Tel: +45 702 371 20  
Fax: +45 702 371 21  
E-Mail: htdk@HellermannTyton.dk  
www.HellermannTyton.dk


 **HellermannTyton Oy – Finland**  
Sähkötie 8  
01510 Vantaa  
Tel: +358 9 8700 450  
Fax: +358 9 8700 4520  
E-Mail: myynti@HellermannTyton.fi  
www.HellermannTyton.fi

 **HellermannTyton S.A.S. – France**  
2 rue des Hêtres, B.P. 130  
78196 Trappes Cedex  
Tel: +33 1 30 13 80 00  
Fax: +33 1 30 13 80 60  
E-Mail: info@HellermannTyton.fr  
www.HellermannTyton.fr


 **HellermannTyton GmbH – Germany**  
Großer Moorweg 45  
25436 Tornesch  
Tel: +49 4122 701-0  
Fax: +49 4122 701-400  
E-Mail: info@HellermannTyton.de  
www.HellermannTyton.de

 **HellermannTyton KFT – Hungary**  
Kisfaludy u. 13  
1044 Budapest  
Tel: +36 1 369 4151  
Fax: +36 1 369 4151  
E-Mail: office@HellermannTyton.hu  
www.HellermannTyton.hu


 **HellermannTyton Ltd – Ireland**  
Unit 77 Cherry Orchard  
Industrial Estate  
Ballyfermot, Dublin 10  
Tel: +353 1 626 8267  
Fax: +353 1 626 8022  
E-Mail: sales@HellermannTyton.ie  
www.HellermannTyton.co.uk


 **HellermannTyton S.r.l. – Italy**  
Via Praimbole 9 Bis  
35010 Limena (PD)  
Tel: +39 049 767 870  
Fax: +39 049 767 985  
E-Mail: info@HellermannTyton.it  
www.HellermannTyton.it

 **HellermannTyton B.V. – Belgium/Netherlands**  
Vanadiumweg 11-C  
3812 PX Amersfoort  
Tel: +31 33 460 06 90  
Fax: +31 33 460 06 99  
E-Mail (NL): info@HellermannTyton.nl  
E-Mail (BE): info@HellermannTyton.be  
www.HellermannTyton.nl  
www.HellermannTyton.be


 **HellermannTyton AS – Norway**  
PO Box 240 Alnabru  
0614 Oslo  
Tel: +47 23 17 47 00  
Fax: +47 22 97 09 70  
E-Mail: firmapost@HellermannTyton.no  
www.HellermannTyton.no

 **HellermannTyton – Poland**  
E-Mail: info@HellermannTyton.pl  
www.HellermannTyton.pl

 **OOO HellermannTyton – Russia**  
40/4, Pulkovskoe road,  
BC Technopolis Pulkovo, office A 8081  
196158, St. Petersburg  
Tel: +7 812 386 00 09  
Fax: +7 812 386 00 08  
E-Mail: info@HellermannTyton.ru  
www.HellermannTyton.ru

 **HellermannTyton – Slovenia**  
Branch Office Ljubljana  
Trubarjeva 79  
1101 Ljubljana  
Tel: +386 1 433 70 56  
Fax: +386 1 433 63 21  
E-Mail: sales@HellermannTyton.si  
www.HellermannTyton.si

 **HellermannTyton España s.l. – Spain/Portugal**  
Avda. de la Industria nº 37, 2º 2º  
28.108 Alcobendas, Madrid  
Tel: +34 91 661 2835  
Fax: +34 91 661 2368  
E-Mail:  
HellermannTyton@HellermannTyton.es  
www.HellermannTyton.es

 **HellermannTyton AB – Sweden**  
Datavägen 5, PO Box 569  
17526 Järfälla  
Tel: +46 8 580 890 00  
Fax: +46 8 580 890 01  
E-Mail: support@HellermannTyton.se  
www.HellermannTyton.se


 **HellermannTyton Ltd – UK**  
William Prance Road  
Plymouth International Medical  
and Technology Park  
Plymouth, Devon PL6 5WR  
Tel: +44 1752 701 261  
Fax: +44 1752 790 058  
E-Mail: info@HellermannTyton.co.uk  
www.HellermannTyton.co.uk


 **HellermannTyton Ltd – UK**  
Sharston Green Business Park  
1 Robeson Way  
Altrincham Road, Wythenshawe  
Manchester M22 4TY  
Tel: +44 161 947 2200  
Fax: +44 161 947 2220  
E-Mail: sales@HellermannTyton.co.uk  
www.HellermannTyton.co.uk


 **HellermannTyton Ltd – UK**  
Main Contact for Customer Service  
Wharf Approach  
Aldridge, Walsall, West Midlands  
WS9 8BX  
Tel: +44 1922 458 151  
Fax: +44 1922 743 237  
E-Mail: info@HellermannTyton.co.uk  
www.HellermannTyton.co.uk

 **HellermannTyton Data Ltd – UK**  
43-45 Salthouse Road  
Cornwell Business Park Brackmills  
Northampton NN4 7EX  
Tel: +44 1604 707 420  
Fax: +44 1604 705 454  
E-Mail: hns@htdata.co.uk  
www.htdata.co.uk

## North America

 **HellermannTyton – Canada**  
Tel: +1 905 726 1221  
Fax: +1 905 726 8538  
E-Mail: sales@HellermannTyton.ca  
www.HellermannTyton.ca

 **HellermannTyton – Mexico**  
Tel: +52 333 133 9880  
Fax: +52 333 133 9861  
E-Mail: info@HellermannTyton.com.mx  
www.HellermannTyton.com

 **HellermannTyton – USA**  
Tel: +1 414 355 1130  
Fax: +1 414 355 7341  
E-Mail: corp@htamericas.com  
www.HellermannTyton.com

## South America


 **HellermannTyton – Argentina**  
Tel: +54 11 4754 5400  
Fax: +54 11 4752 0374  
E-Mail:  
ventas@HellermannTyton.com.ar  
www.HellermannTyton.com.ar

 **HellermannTyton – Brazil**  
Tel: +55 11 4815 9000  
Fax: +55 11 4815 9030  
E-Mail:  
vendas@HellermannTyton.com.br  
www.HellermannTyton.com.br

## Asia-Pacific

 **HellermannTyton – Australia**  
Tel: +61 2 9525 2133  
Fax: +61 2 9526 2495  
E-Mail:  
cservice@HellermannTyton.com.au  
www.HellermannTyton.com.au


 **HellermannTyton – China**  
Tel: +86 510 8528 2536  
Fax: +86 510 8528 2731  
E-Mail:  
cservice@HellermannTyton.com.cn  
www.HellermannTyton.com.cn


 **HellermannTyton – Hong Kong**  
Tel: +852 2832 9090  
Fax: +852 2832 9381  
E-Mail:  
cservice@HellermannTyton.com.hk  
www.HellermannTyton.com.sg

 **HellermannTyton – India**  
Tel: +91 11-2620 9230/6661 9230  
Fax: +91 11-2620 9330/6661 9330  
E-Mail: cservice@HellermannTyton.co.in  
www.HellermannTyton.co.in

 **HellermannTyton – Japan**  
Tel: +81 3 5790 3111  
Fax: +81 3 5790 3112  
E-Mail: cservice@HellermannTyton.co.jp  
www.HellermannTyton.co.jp


 **HellermannTyton – Korea**  
Tel: +82 2 2614 0157  
Fax: +82 2 2614 0284  
E-Mail: cservice@HellermannTyton.co.kr  
www.HellermannTyton.co.kr

 **HellermannTyton – Philippines**  
Tel: +63 2 752 6551  
Fax: +63 2 752 6553  
E-Mail:  
cservice@HellermannTyton.com.ph  
www.HellermannTyton.com.ph

 **HellermannTyton – Singapore**  
Tel: +65 6 852 8585  
Fax: +65 6 756 6798  
E-Mail: cservice@HellermannTyton.sg  
www.HellermannTyton.com.sg

 **HellermannTyton – Thailand**  
Tel: +66 2 237 6702  
Fax: +66 2 266 8664  
E-Mail:  
cservice@HellermannTyton.com.th  
www.HellermannTyton.com.sg

## Africa

 **HellermannTyton – South Africa**  
Tel: +27 11 879 6680  
Fax: +27 11 879 6601  
E-Mail: sales.jhb@Hellermann.co.za  
www.HellermannTyton.co.za

www.HellermannTyton.com

# HellermannTyton