Durable Products for Hazardous Environments

Perfect bundling, fixing, protection and identification
HellermannTyton Metal Systems
Durable 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
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.

Engineered for your Industry
Metal solutions designed to meet your demands
Material overview stainless steel

<table>
<thead>
<tr>
<th>Material</th>
<th>Shortcut</th>
<th>Operating Temperature</th>
<th>Flammability</th>
<th>Material Properties</th>
<th>Material Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless Steel</td>
<td>S3304,</td>
<td>-80 °C to +338 °C</td>
<td>non-burning</td>
<td>• Corrosion resistant</td>
<td>HF, LFH, RoHS</td>
</tr>
<tr>
<td>Stainless Steel,</td>
<td>S316</td>
<td></td>
<td></td>
<td>• Anti-magnetic</td>
<td></td>
</tr>
<tr>
<td>Polyester</td>
<td>SP</td>
<td>-50 °C to +150 °C</td>
<td>halogen free</td>
<td>• Weather resistant</td>
<td>HF, LFH, RoHS</td>
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* 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.

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.

The material properties of the 304/316 steel (similar to V2A/V4A steel) are as follows:

- **Corrosion resistant**
- **Antimagnetic**
- **Weather resistant**
- **Outstanding chemical resistance**
- **UV-resistant**
- **Good chemical resistance to:**
  - most acids, alkalis and oils

Material and Testing Series

Highest quality 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.

- **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.

- **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.

- **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.
Metal Products of Choice
Meeting your requirements wherever you work

Stainless Steel Identification Products
Flexibility and mobility with powerful performance
Discover M-BOSS Compact, 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

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 galvanised 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
Stainless Steel Identification Products
Tough products for your harsh identification needs

Metal Plate Embossing Printer

- Simple to set up, easy to operate
- Fast print speeds
- Standard electrical supply
- Desktop size
M-BOSS Compact Printer
Your ideal on-site metal plate embossing printer

A simple solution to managing your printer output.

Stainless Steel Printing System

- **M-BOSS Compact**

M-BOSS Compact is a quiet, easy-to-use metal plate embossing printer with a small production footprint. It is simple to install and operate and only needs a standard electrical supply and a PC. Texts are created with Tagprint Pro 3.0. Simply open the easy to use program to create print lists. Improved cooling system now ensures a continuous operation between 8-10 hours.

Marker plates are attached to pipes and cables using 4.6 mm wide MBT Cable Ties and a MK9SST Hand Tool.

- **M-BOSS Compact and Organiser**

M-BOSS Compact and Organiser system gives the added advantage of a self-contained storage system within the print unit. The organiser is a 10 container carousel storage system that can be programmed to hold either an individual or a pre-defined set of marker plates. This means that users have the flexibility to manage how they work with the printed output. A simple input screen on the top of the machine is used to specify the quantity per container within the carousel. The carousel drawer when opened extends 430 mm from the front of the printer.

Power Supply: 110 Volt AC - 240 Volt AC 50/60 Hz
Cycle Time: 1 second per character
Dimensions W x H x D: 480 mm x 360 mm x 570 mm
Weight: 41 kg

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Pack Cont.</th>
<th>Article-No.</th>
</tr>
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<tbody>
<tr>
<td>M-BOSS Compact</td>
<td></td>
<td>544-20000</td>
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</table>

M-BOSS Markers are used in all areas where severe mechanical or chemical conditions occur e.g. offshore industry, marine engineering, petrochemical industry, mining, underground or on radio and cellular masts where mark permanence is critical.

The raised surface of the embossed print ensures that the text remains visible even with dirt, grease, and paint cover the marker. The physical characteristics of the metal and the height of the embossed mark allows users to apply a stiff or metallic brush to the surface and remove excess layers of paint or grease without damaging the integrity of the text.

Features and Benefits

- Raised marking ensure text visibility even when covered in dust, debris, grease and oil
- Stainless steel grade SS316 is suited for use in harsh environments
- Marker plates are designed for use with stainless steel cable ties with a 4.6 mm strap width
- Apply ties with a MK9SST

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

Stainless Steel Printing System

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Easy fix your markers with MBT Cable Ties and our MK9SST Hand Tool.
Stainless Steel Printing System

**M-BOSS Print Service**

- Customised stainless steel SS316 markers are now available. Simply send required texts, barcodes, and logos electronically for perfect laser etched marker plates.
- Excellent character legibility
- Resistant to weathering and extreme levels of UV light
- Printed mark will last the lifetime of the metal plate and cable tie
- MBC or MBML marker plates are possible

### Stainless Steel Pre-embossed Marking System, manual

- **Hellerman SSM**
- **Hellerman SSS**

Hellerman is used in the rail, marine, offshore, petrochemical, food and construction industries, for the identification of cables, pipes and other equipment in harsh environments.

#### Features and Benefits

- Stainless steel pre-embossed marker tiles and carriers
- Made of grade 316 stainless steel for ideal use in aggressive environments
- Insert marker tiles (SSM) into fitting carrier (SSC) and either seal with a plastic cap (SSCPP) or close ends with pliers
- Faster carriers using stainless steel cable ties with max. strap width of 8 mm
- Carrier can be riveted or screw-fixed using two 3 mm holes at each end

### Laser Beam Marked Metal Plates and Ties

- **MBC**
- **MBML**

MBC marker plates are designed with a high bridge that allows both plastic and metal cable ties; metal ties up to 7.9 mm wide and 0.27 mm thick, and plastic ties up to 4.6 mm wide and 1.5 mm thick. The MBML range of marker plates can only be used with metal ties up to 4.6 mm wide.

### Identification to go with pre-embossed marker tiles

- Customised embossed stainless steel SS316 markers are now available. Simply send required texts, barcodes, and logos electronically for perfect laser etched marker plates.

### CUSTOMIZATION

- Customised embossed stainless steel SS316 markers are now available. Simply send required texts, barcodes, and logos electronically for perfect laser etched marker plates.
- Characters are embossed so that dirt, dust, paint and debris can be removed leaving a clear visible mark.

### MATERIALS

**Stainless Steel (SS316)**

**Operating Temperature**

- 80 °C to +538 °C

### Package Content

- Minimum Order Quantity (MOQ) may differ from package content.
- All dimensions in mm. Subject to technical changes.
Cable Tie Solutions for Bundling & Fixing
Suitable for 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 grade 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.

To bundle rigid objects, LFPC channel should be laid as buffer between strap and bundled material to compensate for this retraction. This locking technology allows for minimum tensile strengths of up to 7,000 Newton.

**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 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.

The MBT-Series (up to 7.9 mm) can also be used in combination with HellermannTyton’s identification marker plates – M-BOSS Compact. This ensures a sustainable way of identification.

**The ideal combination**

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.

**Available in different widths**

- SS304 grade available
- SS316 grade available

**Ear-lock type buckle design**

Available in 2 different thicknesses

SS316 grade available

Available in an uncoated version

**Round edges and smooth surface**

**New punch-locking mechanism**

Available in 5.9 mm width

**Flat and compact head design**

Available in an uncoated version

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**HellermannTyton’s Metal Cable Ties**

**From standard to specialist features**

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**Metal Ball Locking Tie (MBT)**

- Unique patented self-locking ball mechanism with low insertion
- Available in 4 different widths (up to 16 mm)
- The extended head design ensures perfect guidance of the band tail into the head and under the metal ball
- Front tip and extra length of the strap underneath the head, improves the bundle conformance (even with small diameters)
- Available in an uncoated and fully coated version (halogen free polyester)

**Metal Fold Locking Tie (MLT)**

- Ear-lock type buckle design which can be released
- Available in 2 different widths (up to 10 mm)
- Available in an uncoated and fully coated version (halogen free polyester)

**Metal Punch Lock Tie (MST)**

- New punch-locking mechanism
- Available in 5.9 mm width
- Flat and compact head design
- Available in an uncoated version

**Metal Banding for Heavy Duty Application (AMT)**

- Ear-lock type buckle design
- Available in 2 different thicknesses
- Available in an uncoated and fully coated version (halogen free polyester)
### MBT Cable Ties

Discover the unique power of the ball locking mechanism.

---

**Cable Ties with Ball-Lock**

- **MBT-S**
- **MBT-H**
- **MBT-uH**

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

**MATERIAL**

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

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**MBT_S, MBT_HS**

**MBT_XH**

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**MBT_UH**

A highly innovative solution from HellermannTyton.

**Cable Ties with Ball-Lock**

- **MBT-S**
- **MBT-H**
- **MBT_uH**

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

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**MBT-S, MBT_H, MBT_uH**

**Cable Ties with Ball-Lock**

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- **MBT_H**
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**MBT_S, MBT_H, MBT_uH**

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---
Bundling & Fixing

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

Cable Ties with Ball-Lock and Coating

- MBT-FC-Series

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

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

### MBT_SFC.

<table>
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<th>Length (L)</th>
<th>Bundle Ø max.</th>
<th>Material</th>
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<th>Article-No.</th>
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<tr>
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<th>Bundle Ø max.</th>
<th>Material</th>
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All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.
MBT Coated Double Wrap Cable Ties Combining high-tensile strength with specialist coating

MBT Coated Double Wrap Cable Ties

MBT_XHDFC Double Wrap Coated

MBT_UHDFC Double Wrap Coated

Double Wrap Cable Ties with Ball-Lock

• MBT_XHDFC / MBT_UHDFC-Series

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

Features and Benefits

• MBT cable ties, made from stainless steel SS316 with a polyester coating
• Patented non-releasable locking feature
• Double wrap operation
• Corrosion resistant
• Weather resistant
• Outstanding chemical resistance
• Antimagnetic
• High temperature resistant
• Non-burning

MATERIAL
Stainless Steel (SS316), Polyester (SP)
Operating Temperature
-80 °C to +538 °C
Operating Temperature
-50 °C to +150 °C
Flammability
non-burning (except coating)

MBT-Series 12.3 mm width
MBT-Series 16 mm width

TYPE
Width (W) Length (L) Bundle Ø max. Material Pack Cont. Article-No.
MBT27XHDFC 12.3 681.0 100.0 5,000 SS316, SP 50 111-01505
MBT33XHDFC 12.3 838.0 120.0 5,000 SS316, SP 25 111-01506
MBT43XHDFC 12.3 1,092.0 160.0 5,000 SS316, SP 25 111-01507
MBT49XHDFC 12.3 1,245.0 180.0 5,000 SS316, SP 25 111-01508
MBT60XHDFC 12.3 1,524.0 230.0 5,000 SS316, SP 25 111-01509
MBT27UHDFC 16.0 681.0 100.0 5,000 SS316, SP 50 111-01521
MBT33UHDFC 16.0 838.0 120.0 5,000 SS316, SP 25 111-01522
MBT43UHDFC 16.0 1,092.0 160.0 5,000 SS316, SP 25 111-01523
MBT49UHDFC 16.0 1,245.0 180.0 5,000 SS316, SP 25 111-01524
MBT60UHDFC 16.0 1,524.0 230.0 5,000 SS316, SP 25 111-01525

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

MBT_11000 Double Wrap.

MBT_11000 Double Wrap.

MBT_11000 Double Wrap.

MBT_11000 Double Wrap.

MBT_11000 Double Wrap.

MBT_11000 Double Wrap.

MBT_11000 Double Wrap.

MBT_11000 Double Wrap.

MBT_11000 Double Wrap.

MBT_11000 Double Wrap.

MBT_11000 Double Wrap.

MBT_11000 Double Wrap.

MBT_11000 Double Wrap.

MBT_11000 Double Wrap.

MBT_11000 Double Wrap.

MBT_11000 Double Wrap.

MBT_11000 Double Wrap.

MBT_11000 Double Wrap.
MLT Cable Ties
Your first choice for fold locking cable ties

Features and Benefits
• Releasable stainless steel buckle tie, MLT-series
• Heavy-duty type 316 stainless steel
• Can be re-opened and re-used
• Available also with polyester coating which prevents corrosion between dissimilar materials

MATERIAL
Stainless Steel (SS316)
Polyester (SP)

Operating Temperature
-80 °C to +538 °C
-80 °C to +150 °C

Flammability
non-burning
non-burning (except coating)

MLT tie
MATERIAL
Stainless Steel (SS316), Polyester (SP)

Operating Temperature
-80 °C to +538 °C
-50 °C to +150 °C

Flammability
non-burning
non-burning

MLT-Series
MLT5SS5 5.0 230.0 60.0 420 SS316 100 111-00327
MLT12SS5 5.0 330.0 90.0 420 SS316 100 111-00338
MLT16SS5 5.0 430.0 120.0 420 SS316 100 111-94161
MLT24SS5 5.0 630.0 180.0 420 SS316 100 111-91300
MLT8SS10 10.0 230.0 60.0 850 SS316 100 111-91000
MLT12SS10 10.0 330.0 90.0 850 SS316 100 111-91121
MLT16SS10 10.0 430.0 120.0 850 SS316 100 111-91163
MLT24SS10 10.0 630.0 180.0 850 SS316 100 111-91181

MLT-C-Series coated
MLT8SSC5 5.3 230.0 60.0 420 SS316, SP 100 111-91001
MLT12SSC5 5.3 330.0 90.0 420 SS316, SP 100 111-91123
MLT16SSC5 5.3 430.0 120.0 420 SS316, SP 100 111-91163
MLT24SSC5 5.3 630.0 180.0 420 SS316, SP 100 111-91181
MLT8SSC10 10.3 230.0 60.0 850 SS316, SP 100 111-91001
MLT12SSC10 10.3 330.0 90.0 850 SS316, SP 100 111-91123
MLT16SSC10 10.3 430.0 120.0 850 SS316, SP 100 111-91163
MLT24SSC10 10.3 630.0 180.0 850 SS316, SP 100 111-91181

All dimensions in mm. Subject to technical changes. The MLT-Series type 5, 10 mm cord size is suitable 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. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

AMT Metal Bandings
Ensures tight locking under vibration conditions

Metal Banding for Heavy Duty Application
• AMT-Series

MATERIAL
Stainless Steel (SS316)

Operating Temperature
-80 °C to +538 °C

Flammability
non-burning

AMT tie
MATERIAL
Stainless Steel (SS316)

Operating Temperature
-80 °C to +538 °C

Flammability
non-burning

AMT-Series
AMT165B 16.0 500.0 0.40 2,500 SS316 10 111-00327
AMT16165B 16.0 600.0 0.40 2,500 SS316 10 111-00338
AMT16165B 16.0 800.0 0.40 2,500 SS316 10 111-00340
AMT16165B 16.0 1,000.0 0.40 2,500 SS316 10 111-00341
AMT16165B 16.0 1,500.0 0.40 2,500 SS316 10 111-00342

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

Please refer to list of products listed on this page may have this approval.
Bundling & Fixing

**MST Cable Ties** Stainless steel metal tie with punch-locking mechanism

**Features and Benefits**
- MST-Series are made from stainless steel 304
- No loosening after bundling
- Corrosion and weather resistant
- Significantly improved vibration resistance
- Outstanding chemical resistance
- Space saving solution
- Safe cutting off (no sharp edges)
- Antimagnetic
- High-temperature resistant
- Non-burning

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Width (W)</th>
<th>Length (L)</th>
<th>Bundle Ø max.</th>
<th>Material</th>
<th>Pack Cont.</th>
<th>E-number</th>
<th>Article-No.</th>
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All dimensions in mm. Subject to technical changes. The MST-Series (up to 5.9 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. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

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

**Protective Channel for Stainless Steel Ties**
- LFPC

When used in conjunction with the MBT, MST and AMT range of stainless steel cable ties this channel gives the cable protection against chafing, vibration and shock. Ideal for use in arduous conditions such as those found on board ships, oil rigs or in nuclear power stations.

**Features and Benefits**
- LFPC channel, manufactured from Polyolefin
- Works with MBT, MST- and AMT-Series
- Smooth surface protects bundle against chafing caused by vibrations and shocks
- Can be cut from roll (50 m) to any length
- Halogenfree
- Flame retardant

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

Please note! Not all products listed on this page may have this approval.
**P-Mounts** The one-hole fixing solution for heavy duty applications

**Screw Fixing Mounts**
- Stainless Steel 316 mounts
- Suitable for the secure fixing of cables, tubing, conduits and pipes within the most arduous of environments. Providing a complete fastening and fixing solution when used in conjunction with stainless steel ties up to 10.0 mm width. They are ideal for use within shipbuilding, oil and gas (offshore), industrial machinery and vehicles, food and beverage, power, renewable energy and process industries.

**Features and Benefits**
- 2-way fixing for stainless steel ties
- High performance stainless steel 316 material
- 10 mm slot width
- Heavy duty design
- Resistant to a range of chemicals
- Weather and corrosion resistant
- Robust and durable solution
- Quick and easy to install
- Safe and secure solution for cables, tubing, conduits and pipes
- Ideal for a range of industries and applications

**MATERIAL** Stainless Steel (SS316)

**Operating Temperature** -80 °C to +538 °C

**Flammability** non-burning

**P-Mounts**

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All dimensions in mm. Subject to technical changes.

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

---

**Insulation SCT – Short circuit test** The perfect alternative to cable cleats

**Short Circuit Test (SCT)**
- MBT and AMT metal cable ties

HellermannTyton’s single and double wrap metal ball and buckle ties fully withstand the maximum force of short circuits in trefoil formation, according to the results of laboratory tests conducted using the parameters outlined in the IEC 61914:2009 cable standard.

The tests conducted by the NEFI High Power Laboratory in Norway – a member of the SATS Certification – demonstrated that our MBT and AMT stainless steel cable ties resist the huge forces unleashed by power cables in the event of a short circuit, even when they are installed in a ‘worst case’ trefoil formation (see drawing).

**Construction of our SCT**
- The MBT and AMT metal ties were insulated from the cable jackets with LFPC polyolefin protective channels as an added layer of protection. Two different cable sizes, Ø 36 mm (300 mm²) and Ø 13 mm (50 mm²), each with 3 cables 8 m in length in trefoil formation, were tested with short circuit times between 0.2 and 0.5 seconds at various current levels.

**Formula for calculating maximum force on conductors according to IEC 61914:2009.**

\[ F_t = 0.17 \times i_p^2 / S \]

Advantages of using HellermannTyton stainless steel cable ties over cable cleats:
- They can be used for inside and outside environment
- Very good heat and chemical resistance
- Due to the range of strap lengths and widths it is easy to choose a solution for every application
- Only one cable tie for many different cable diameters
- Cost saving solution
- Lower installation costs
- Lower inventory value

**Conclusion**
- With the SCT we have proven that our MBT and AMT cable ties are suitable for low and medium voltage cable and withstand a certain level of short circuits.
- By using the IEC specified formula we are able to offer customers the right cable tie for their application.

The stainless steel cable ties from HellermannTyton are a perfect time saving solution for a low price and low installation cost.

---

**Best practice for installation. Ties should be bundled as close as possible for a smooth loop to avoid sharp edges.**

---

MBT tie with LFPC channel restraining cables in trefoil formation.
HelaGuard Flexible Conduits
Optimum mechanical protection for the most rigorous applications

Metallic Conduits And Fittings

- High-grade, heavy-duty stainless and galvanised steel conduits
- High compression, impact and tensile strength
- Large variety of diameters
- Sturdy stainless steel and nickel-plated brass fittings
### SSC Stainless Steel Conduits
Reliable mechanical protection in the most corrosive environments

#### Metallic Conduits
- **SSC Stainless steel conduit**

Stainless steel, corrosion-resistant flexible conduit used for protection of sensor cables, instrumentation tubing, as well as hydraulic and pneumatic conduits, particularly in corrosive environments. Commonly used in hospitals and clinics.

**Features and Benefits**
- Highly resistant to rust and corrosion
- High compression, tensile and impact strength
- Very flexible

**Material**
- Stainless Steel (SS316)

**Operating Temperature**
- -100 °C to +400 °C

**Table of Dimensions and Specifications**

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<thead>
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<th>TYPE</th>
<th>Nominal Ø</th>
<th>Outside Ø (OD)</th>
<th>Inside Ø</th>
<th>Bending Radius</th>
<th>Weight (g/m)</th>
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All dimensions in mm. Subject to technical changes. Other reel lengths available on request. Minimum Order Quantity (MOQ) may differ from package content.

### SC Galvanised Steel Conduits
Combining flexibility with high strength

#### Metallic Conduits
- **SC Galvanised steel conduit**

General purpose flexible steel conduit offers high mechanical protection and is typically used in machines, plants, underfloor wiring, data cabling and protection of hydraulic or pneumatic conduits.

**Features and Benefits**
- High compression, tensile and impact strength
- Very flexible

**Material**
- Galvanised Steel (GS)

**Operating Temperature**
- -100 °C to +300 °C

**Table of Dimensions and Specifications**

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<thead>
<tr>
<th>TYPE</th>
<th>Nominal Ø</th>
<th>Outside Ø (OD)</th>
<th>Inside Ø</th>
<th>Bending Radius</th>
<th>Weight (g/m)</th>
<th>Real Length</th>
<th>Colour</th>
<th>Article-No.</th>
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<tr>
<td>SC10</td>
<td>10</td>
<td>9.1</td>
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<td>25 m</td>
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<td>166-30100</td>
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<td>SC12</td>
<td>12</td>
<td>12.3</td>
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<td>25 m</td>
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<td>SC16</td>
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<td>16.4</td>
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<td>25 m</td>
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<td>SC20</td>
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<td>20.6</td>
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<td>295</td>
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<td>Metal (ML)</td>
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<td>25</td>
<td>24.6</td>
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<td>25 m</td>
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<tr>
<td>SC32</td>
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<td>32.0</td>
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<td>Metal (ML)</td>
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<td>SC40</td>
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<td>42.5</td>
<td>37.6</td>
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<td>519</td>
<td>25 m</td>
<td>Metal (ML)</td>
<td>166-30106</td>
</tr>
<tr>
<td>SC50</td>
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<td>53.2</td>
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<td>25 m</td>
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<td>SC63</td>
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<td>1,137</td>
<td>10 m</td>
<td>Metal (ML)</td>
<td>166-30109</td>
</tr>
</tbody>
</table>

All dimensions in mm. Subject to technical changes. Other reel lengths available on request. Minimum Order Quantity (MOQ) may differ from package content.
## SSC Stainless Steel Metallic Fittings
For a complete, corrosion-resistant installation

### Features and Benefits
- Two-part fitting of shell and body with external thread
- Highly resistant to rust and corrosion
- Provides tight, reliable hold of conduit
- Can be secured with locknut

### Fittings for metallic conduits

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Nominal Ø</th>
<th>Thread Size (metric)</th>
<th>Min. Bore Size (B)</th>
<th>Length (L)</th>
<th>A/F Body</th>
<th>Thread Length</th>
<th>Pack Cont.</th>
<th>Colour</th>
<th>Article-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSC12-FM-M16</td>
<td>12</td>
<td>M16</td>
<td>23</td>
<td>20</td>
<td>8.0</td>
<td>1 pcs.</td>
<td>Metal (ML)</td>
<td>166-30322</td>
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<td>M16</td>
<td>23</td>
<td>20</td>
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<td>1 pcs.</td>
<td>Metal (ML)</td>
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<tr>
<td>SSC12-FM-M20</td>
<td>20</td>
<td>M20</td>
<td>35.3</td>
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<td>M25</td>
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### NOMINAL Ø (mm) 10 M10 16 3.2 19 8.0 1 pcs. Metal (ML) 166-30319

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

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## SC Metallic Fittings
For a secure and reliable hold

### Features and Benefits
- Two-part fitting of shell and body with external thread
- Provides tight, reliable hold of conduit
- Can be secured with locknut

### Fittings for metallic conduits

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Article-No.</th>
<th>Nominal Ø</th>
<th>Thread Size (metric)</th>
<th>Thread Size (PG)</th>
<th>Pack Cont.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC10-FM-PG7</td>
<td>166-30311</td>
<td>10</td>
<td>M75</td>
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<tr>
<td>SC10-FM-M12</td>
<td>166-30300</td>
<td>12</td>
<td>M10</td>
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<tr>
<td>SC12-FM-PG9</td>
<td>166-30313</td>
<td>12</td>
<td>M9</td>
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<td>SC16-FM-M16</td>
<td>166-30301</td>
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<td>SC20-FM-PG13</td>
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<td>166-30304</td>
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### NOMINAL Ø 10 M10 16 3.2 19 8.0 1 pcs. Metal (ML) 166-30319

### Minimum Order Quantity (MOQ) may differ from package content.
All dimensions in mm. Subject to technical changes.
Manual & Pneumatic Processing Tools
The best way to fasten your metal cable ties

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

The best choice for applying stainless steel cable ties

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

HDT-Tool

Manual Tensioning Tool for Metal Ties MBT- and AMT-Series

+ HDT16 up to 16.0 mm strap width

The HDT16 application tool is designed for installing heavy duty stainless steel cable ties within a range of industries such as shipbuilding, oil rigs, mining and mass transit. The tool can easily be adjusted making it suitable for applying both MBT and AMT cable ties with a strap width of up to 16 mm.

Features and Benefits
- Two way nose piece for use with both MBT-Series and AMT-Series stainless steel cable ties
- Easy adjustment of the handles to ensure the most ergonomic position for the operator
- Integrated cutting mechanism delivering a flush cut and professional finish every time
- The ideal tool for achieving a perfect installation of MBT and AMT cable ties

Pneumatic Tensioning Tool with Plastic Housing

+ MK9PSST up to 16.0 mm strap width

Features and Benefits
- Unique levels of repeatability and accuracy
- High application speed and low maintenance
- Improved compressed air supply for faster tensioning piston movement
- Shorter processing time and greater volume of connecting tie application
- Ergonomic design
- Automatic ejection of cut-off cable tie end
- Ideally designed to apply stainless steel MBT/MAT-series up to 16.0 mm width
- On air pressure between 3 and 6 bar

Manual Tensioning Tool for Metal Ties MBT-Series

+ MK9STST up to 16.0 mm strap width

Features and Benefits
- Glass-fibre-reinforced housing
- Consistent tensioning and automatically cutting of metal ties MBT/MAT-series
- Infinitely adjustable tension force combined with two-step quick adjustment

Manual Tensioning Tool for Metal Ties AMT-Series

+ KST-STG200 up to 12.3 mm strap width

Features and Benefits
- Tough metal tool
- Operator controlled tensioning
- Cut off by pulling the hand lever

TYPE | Strap Width max. (G) | Strap Thickness max. | Weight | Article-No.
--- | --- | --- | --- | ---
HDT16 | 16.0 | | | 110-40000

All dimensions in mm. Subject to technical changes.

TYPE | Strap Width max. (G) | Strap Thickness max. | Weight | Article-No.
--- | --- | --- | --- | ---
MK9PSST | 16.0 | 0.7 | 0.91 kg | 110-95350

All dimensions in mm. Subject to technical changes.

TYPE | Strap Width max. (G) | Strap Thickness max. | Weight | Article-No.
--- | --- | --- | --- | ---
MK9STST | 16.0 | 0.3 | 0.6 kg | 110-95000

All dimensions in mm. Subject to technical changes.

TYPE | Strap Width max. (G) | Strap Thickness max. | Weight | Article-No.
--- | --- | --- | --- | ---
KST-STG200 | 12.3 | 0.3 | 0.561 kg | 110-09950

All dimensions in mm. Subject to technical changes.
Processing Tools

Ergonomic, lightweight tools for heavy duty applications

Manual Tensioning Tool for Metal Ties MTL-Series
• MTL6 up to 5.9 mm strap width

The MTL6 tool has been specially developed for reliably applying HellermannTyton metal cable ties of the MTL-Series. Due to the punch-lock mechanism the tie is mechanically crimped and leads to metal deformation of the tie ends. This punch-lock mechanism ensures a reliable bundling with perfect resistance to vibration. The tension force is freely adjustable by the operator.

Features and Benefits
• Tough metal tool
• Ergonomic design
• Consistent tensioning and automatically cutting of metal ties
• Designed for use with MTL-S Series ties (5.9 mm)
• For tensioning, fixing and cutting MTL-S metal ties

• MTL6 up to 5.9 mm strap width

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Strap Width max. (G)</th>
<th>Strap Thickness max.</th>
<th>Weight</th>
<th>Article-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTL6</td>
<td>5.9</td>
<td>0.3</td>
<td>0.525 kg</td>
<td>110-61000</td>
</tr>
</tbody>
</table>

All dimensions in mm. Subject to technical changes.

Manual Tensioning Tool for Metal Ties MTL3-Series
• MTT4 up to 12.0 mm strap width

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

Features and Benefits
• Tough metal tool
• Simple ratchet operation, easy to use
• Operator controlled tensioning and cutting facility

• MTT4 up to 12.0 mm strap width

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Strap Width max. (G)</th>
<th>Strap Thickness max.</th>
<th>Weight</th>
<th>Article-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTT4</td>
<td>12.0</td>
<td>0.7</td>
<td>0.78 kg</td>
<td>110-04000</td>
</tr>
</tbody>
</table>

All dimensions in mm. Subject to technical changes.

Manual Tensioning Tool for Metal Ties MTLT-Series
• THT up to 7.9 mm strap width

The THT tool is ideal for customers purchasing HellermannTyton’s MBT Kit that require additional tools, or for occasional users of stainless steel MBT cable ties. The THT Tool allows simple hand tensioning of MBT ties for quick and easy installations, coiling the tail for a safe, neat finish.

Features and Benefits
• Ergonomic T-handle design with rubber grip
• Suitable for MBT cable ties (4.6 mm and 7.9 mm)
• Simple tensioning mechanism coils the strap tail quickly without cut off

• THT up to 7.9 mm strap width

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Strap Width max. (G)</th>
<th>Strap Thickness max.</th>
<th>Weight</th>
<th>Article-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>THT</td>
<td>7.9</td>
<td>1.0</td>
<td>0.145 kg</td>
<td>110-09970</td>
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All dimensions in mm. Subject to technical changes.