



RFID Solutions

Products for Effective Asset Management





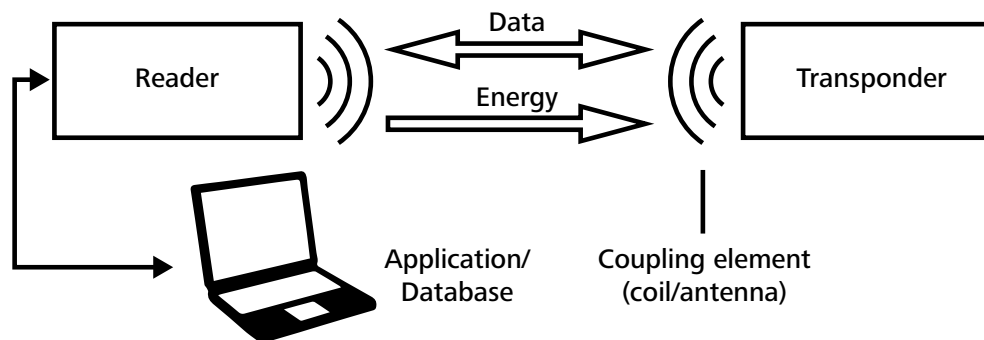
Asset Management

There is an ever increasing need by business to ensure the traceability and record-keeping of calibration, location and maintenance requirements to current quality and accreditation standards.

HellermannTyton has for many years manufactured a range of identification products that give both human readable and bar-coded identification. To complete the range of asset management identification HellermannTyton has introduced a NEW range of RFID cable accessories. The ties are especially suited for securing, serialisation, tracking and identification of products in the areas of resource management, electrical inspection, inventory, distribution and rental services as well as for easy management of maintenance and repair routines.

What is RFID?

Radio frequency identification, for short RFID, simply means the identification by radio waves. The data transfer is affected by means of electromagnetic waves. This technology allows a contactless storing and reading of data and makes a communication between devices possible. There are several methods of identification, but the most common is to store a serial number that identifies a person or object, and perhaps other information, on a microchip that is attached to an antenna (the chip and the antenna together are called an RFID transponder or an RFID tag). With an RFID reader the stored information can be evaluated.



HellermannTyton offers a range of RFID cable ties complete with choice of transponders which can be read with HellermannTyton RFID readers to deliver quick and accurate reporting.

RFID (Radio Frequency Identification) is a digital system to manage equipment inspections and reporting for business that are still using paper based systems and wants to improve resource performance.

The benefits of RFID cable ties and accessories are:

- Fast and paperless data collection
- Elimination of typing errors in reports
- Reduction of working hours due to reduction of paper work
- Controlled administration of devices and warehouse
- Comply with legislation
- Easy to share up-to-date information
- Reliable operation in harsh environments, for example wet, dusty, dirty conditions; corrosive environments; vibration and shock
- No need for contact or line-of-sight

HellermannTyton has developed a range of cable ties to host RFID transponders to enable users to easily fix the RFID tag to equipment that needs to carry a serial number for tracking and identification purposes. Applications for RFID include:

- Resource and asset management
- Theft preventing and traceability
- Security tagging
- Essential maintenance
- Attendance verification and time recording
- Leak detection
- Baggage tagging
- Vehicle identification
- Automation processes



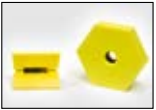
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Cable ties complete with integrated RFID transponder

T50RFID - Low Frequency (LF) and High Frequency (HF)

RFID cable ties provide an innovative solution for clear and rapid product identification. The nylon cable ties are equipped with an RFID transponder and therefore combine the numerous advantages of a regular cable tie with RFID technology. The ties are especially suited for securing, serialisation, tracking and identification of products in the areas of resource management, electrical inspection, inventory, distribution and rental services as well as for easy management of maintenance and repair routines.

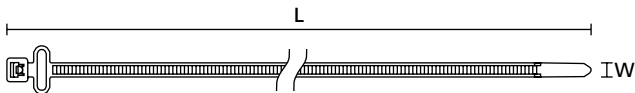
Features and Benefits

- Flexible, contactless data communication
- Clear identification of objects through unique numbering
- Faster data management compared to paper solution
- More accurate documentation processes – prevention of human errors
- Robust and resistant to harsh environments and cleaning processes
- Low frequency (LF – 125 kHz) - Read only
- High frequency (HF – 13.56 MHz) - Rewritable
- Special colours are possible on request



T50RFID – Cable ties with RFID transponder.

MATERIAL	Polyamide 6.6 (PA66)
Idle Temperature	-40 °C to +85 °C
Operating Temperature	-25 °C to +85 °C
Flammability	UL94 V2



T50RFID, MCTRFID

TYPE	Frequency	Bundle Ø min.	Bundle Ø max.	Width (W)	Length (L)	N	Colour	Pack Cont.	Tools	Article-No.
T50RFIDCLA	125 kHz (LF)	1.5	50.0	4.6	200.0	225	Yellow (YE)	100 pcs.	6	111-01638
T50RFIDCHA	13.56 MHz (HF)	1.5	50.0	4.6	200.0	225	Yellow (YE)	100 pcs.	6	111-01639
	13.56 MHz (HF)	1.5	50.0	4.6	200.0	225	Black (BK)	100 pcs.	6	111-01591
	13.56 MHz (HF)	1.5	50.0	4.6	200.0	225	Light Blue (LTBU)	100 pcs.	6	111-01673

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

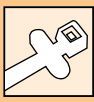
= Minimum Loop Tensile Strength for Cable Ties (Newton)

Recommended Tools
6 EVO7

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



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



Detectable cable ties with integrated RFID transponder

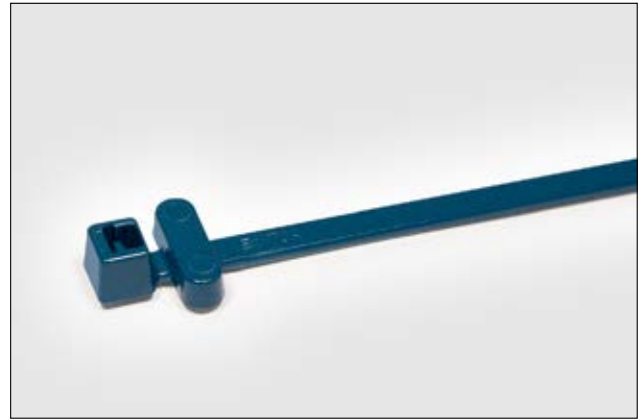
MCTRFID - Low Frequency (LF) and High Frequency (HF)

Hellermann Tyton has developed a range of nylon and metal identification cable ties with RFID tag to enable users to easily fix the RFID tag to equipment that needs to carry a serial number for tracking and identification purposes.

The products are provided to clients in the following areas: utility companies, healthcare, food processing, agriculture, hire shops and companies carrying out servicing and calibration.

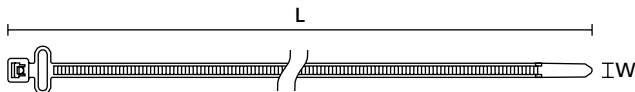
Features and Benefits

- Magnetic or X-Ray detectable RFID cable ties (detection level depending on specific application)
- Total metal dispersion throughout the tie
- For safe handling of production processes
- Blue colour for easy visual detection
- Flexible, contactless data communication
- Clear identification of objects through unique numbering
- Faster data management compared to paper solution
- More accurate documentation processes – prevention of human errors
- Robust and resistant to harsh environments and cleaning processes
- Low frequency (LF – 125 kHz) - Read only
- High frequency (HF – 13.56 MHz) - Rewritable




MCTRFID – Detectable cable ties (metal content) with RFID transponder.

MATERIAL	Polyamide 6.6, with metal particles (PA66MP)
Idle Temperature	-40 °C to +85 °C
Operating Temperature	-25 °C to +85 °C
Flammability	UL94 V2



T50RFID, MCTRFID

TYPE	Frequency	Bundle Ø min.	Bundle Ø max.	Width (W)	Length (L)		Colour	Pack Cont.	Tools	Article-No.
MCTRFIDCLA	125 kHz (LF)	1.5	50.0	4.6	200.0	225	Blue (BU)	100 pcs.	6	111-01976
MCTRFIDCHA	13.56 MHz (HF)	1.5	50.0	4.6	200.0	225	Blue (BU)	100 pcs.	6	111-01676

All dimensions in mm. Subject to technical changes.
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 = Minimum Loop Tensile Strength for Cable Ties (Newton)

Recommended Tools
6 EVO7

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Stainless steel ties with RFID transponder

MBTRFID – High Frequency (HF) and Ultra High Frequency (UHF)

Stainless steel RFID cable ties are fitted with a slide-on carrier for a high frequency (HF) or an ultra-high frequency (UHF) RFID transponder. These ties are ideal for product identification in all areas of harsh environment where high tensile strength and durability is of importance. The ties are especially suited for securing, serialisation, tracking and identification of products in the areas of resource management, electrical inspection, inventory, distribution and rental services as well as for easy management of maintenance and repair routines.

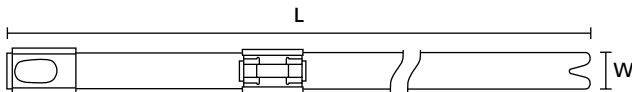
Features and Benefits

- MBT stainless steel (316) tie complete with RFID transponder
- Especially suited for applications in harsh environments
- Patented non-releasable locking feature
- Flexible, contactless data communication
- Clear identification of objects through unique numbering
- Faster data management compared to paper solution
- More accurate documentation processes – prevention of human errors
- High frequency (HF – 13.56 MHz)
- Ultra high frequency (UHF – 869 MHz)
- Rewritable
- Standard colour red, black coating is also available as a special



MBTRFID – Stainless steel RFID cable ties for product identification in harsh environments.


MATERIAL	Stainless Steel (SS316), Polyester (SP)	
Frequency	13.56 MHz (HF)	869 MHz (UHF)
Idle Temperature	-25 °C to +70 °C	-40 °C to +85 °C
Operating Temperature	-25 °C to +70 °C	-40 °C to +85 °C
Flammability	non-burning (except coating)	



MBTRFID

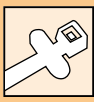
TYPE	Frequency	Bundle Ø min.	Bundle Ø max.	Width (W)	Length (L)		Colour	Pack Cont.	Tools	Article-No.
MBT8HFCRFID	13.56 MHz (HF)	12.0	17.0	7.9	201.0	1,020	Red (RD)	50 pcs.	15-18	156-01167
MBT14HFCRFID	13.56 MHz (HF)	17.0	102.0	7.9	362.0	1,020	Red (RD)	50 pcs.	15-18	111-01586
MBT20HFCRFID	13.56 MHz (HF)	17.0	152.0	7.9	521.0	1,020	Red (RD)	50 pcs.	15-18	111-01587
MBT27HFCRFID	13.56 MHz (HF)	17.0	203.0	7.9	681.0	1,020	Red (RD)	50 pcs.	15-18	111-01588
MBT33HFCRFID	13.56 MHz (HF)	17.0	254.0	7.9	838.0	1,020	Red (RD)	50 pcs.	15-18	111-01589
MBT8HHFRFID	869 MHz (UHF)	12.0	17.0	7.9	201.0	1,020	Red (RD)	50 pcs.	15-18	156-01565
MBT14HHFRFID	869 MHz (UHF)	12.0	102.0	7.9	362.0	1,020	Red (RD)	50 pcs.	15-18	156-01566
MBT20HHFRFID	869 MHz (UHF)	12.0	152.0	7.9	521.0	1,020	Red (RD)	50 pcs.	15-18	156-01567
MBT27HHFRFID	869 MHz (UHF)	12.0	203.0	7.9	681.0	1,020	Red (RD)	50 pcs.	15-18	156-01568
MBT33HHFRFID	869 MHz (UHF)	12.0	254.0	7.9	838.0	1,020	Red (RD)	50 pcs.	15-18	156-01569

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

 = Minimum Loop Tensile Strength for Cable Ties (Newton)

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

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



Accessories with RFID transponder

HEXTAG – High Frequency (HF)

The HEXTAG made from PA66 is equipped with a transponder of HF frequency. The central hole allows a simple mounting in applications where a RFID cable tie solution is not suitable. All HellermannTyton RFID products can be used for securing, serialisation, tracking and identification of products in the areas of resource management, electrical inspection, inventory, distribution and rental services as well as for easy management of maintenance and repair routines.

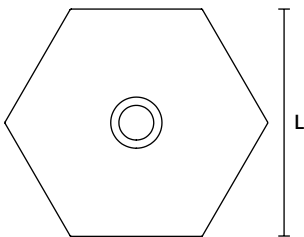
Features and Benefits

- Can be fitted using a chosen fixing element through the centre hole
- Flexible, contactless data communication
- Clear identification of objects through unique numbering
- Faster data management compared to paper solution
- More accurate documentation processes – prevention of human errors
- Robust and resistant to harsh environments and cleaning processes
- High frequency (HF - 13.56 MHz)
- Rewritable
- Yellow colour for easy visual detection

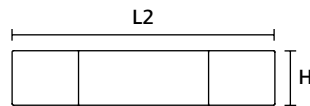


RFID HEXTAG – For applications where a RFID cable tie solution is not suitable.

MATERIAL	Polyamide 6.6 (PA66)
Idle Temperature	-40 °C to +85 °C
Operating Temperature	-40 °C to +85 °C
Flammability	UL94 V2



HEXTAG (front view)



HEXTAG (side view)

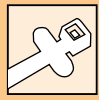
TYPE	Frequency	Height (H)	Length (L)	Length (L2)	Colour	Pack Cont.	Article-No.
RFID HEXTAG	13.56 MHz (HF)	8.0	33.4	38.39	Yellow (YE)	100 pcs.	151-01582

All dimensions in mm. Subject to technical changes.

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



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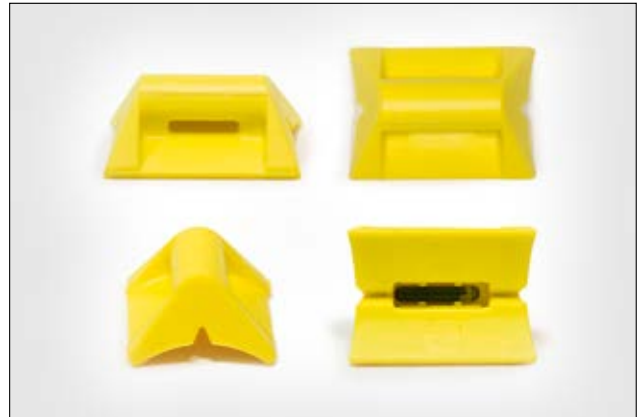
Accessories with RFID transponder

CRADLE - High Frequency (HF)

The CRADLE equipped with a HF transponder can be used with standard HellermannTyton cable ties. All RFID products can be used for securing, serialisation, tracking and identification of products in the areas of resource management, electrical inspection, inventory, distribution and rental services as well as for easy management of maintenance and repair routines.

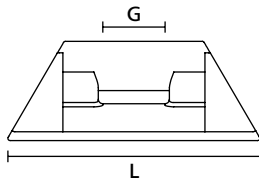
Features and Benefits

- Cable tie slot to suit HellermannTyton's standard cable ties up to 7.9 mm wide
- Made from durable TPU and is suitable to be used in salt water conditions
- Flexible, contactless data communication
- Clear identification of objects through unique numbering
- Faster data management compared to paper solution
- More accurate documentation processes – prevention of human errors
- Robust and resistant to harsh environments and cleaning processes
- Date on RFID chip can be reprogrammed (HF) – no waste
- Yellow colour for easy visual detection
- Other colours and frequencies are available on request
- High frequency (HF – 13.56 MHz)
- Rewritable

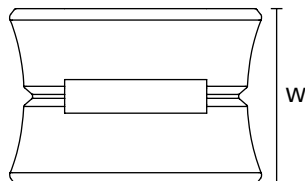


RFID CRADLE – Can be used with a standard HellermannTyton cable tie.

MATERIAL	Thermoplastic Elastomer (TPE)
Idle Temperature	-40 °C to +85 °C
Operating Temperature	-25 °C to +85 °C
Flammability	UL94 V2



CRADLE (front view)



CRADLE (rear view)



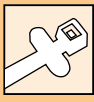
CRADLE (side view)

TYPE	Frequency	Width (W)	Length (L)	Strap Width max. (G)	Colour	Pack Cont.	Article-No.
RFID CRADLE	13.56 MHz (HF)	19.8	27.9	7.9	Yellow (YE)	100 pcs.	151-01472

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



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RFID Readers

RFID Handheld Reader

The HS9 handheld RFID readers are designed to read RFID transponders fitted to HellermannTyton cable ties and accessories. The readers act as an interface between the RFID transponder and computer systems or databases. Radio waves transmit the data from the RFID transponder to the reader, so that contactless reading and/or writing of information is possible. The HS9 reader is available for low frequency (LF, 125 kHz) and for high-frequency (HF, 13.56 MHz) transponders. RFID system solutions can make a significant contribution to improving the process reliability and quality in a variety of industries.

Features and Benefits

- RFID handheld reader
- Rewrite function on request
- Low frequency (LF - 125 kHz)
- High frequency (HF - 13.56 MHz)
- USB, HID interface
- Wireless transmission via Bluetooth
- Operator convenience
- Lightweight and handy design
- Compatible with Android- and iOS-devices
- 9V alkaline battery included



RFID-HS9 – Handheld readers for low frequency (LF) and high frequency (HF) transponders.

Operating Temperature	0 °C to +55 °C
Interfaces	USB, Bluetooth, HID
L x W x H	135 mm x 70 mm x 24 mm

TYPE	Frequency	Weight	Article-No.
RFID-HS9BT-LF	125 kHz (LF)	165 g	556-00701
RFID-HS9BT-HF	13.56 MHz (HF)	185 g	556-00700

Subject to technical changes.



RFID Readers

RFID Desktop Reader

The RFID-DT22 desktop reader for stationary use has been designed to read and write from/to high frequency (HF 13.56 MHz) transponders fitted to HellermannTyton RFID cable ties and accessories. The reader acts as an interface to computer systems and databases. Radio waves transmit the data from the transponder to the reader, so that contactless reading of information is possible. RFID system solutions can make a significant contribution to improving the process reliability and quality in a variety of industries.

Features and Benefits

- RFID desktop reader
- High frequency (HF - 13.56 MHz)
- For reading and writing of data
- USB, HID interface
- Operator convenience
- Lightweight and handy design



RFID-DT22 – Desktop reader for high frequency (HF) transponders.

Operating Temperature	-25 °C to +60 °C
Interfaces	USB, HID
L x W x H	110 mm x 110 mm x 30 mm

TYPE	Frequency	Weight	Article-No.
RFID-DT22-HF	13.56 MHz (HF)	200 g	556-00702

Subject to technical changes.

