

HellermannTyton


RFID
Solutions





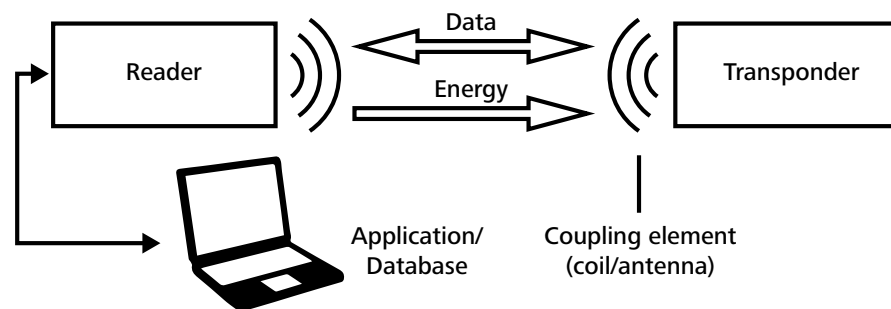
Asset Management

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, is a generic term for technologies that use radio waves to automatically identify objects or people. 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 a RFID reader the stored information can be evaluated.



HellermannTyton offers a range of passive RFID technologies (cable ties and accessories equipped with RFID tags) which can be read with RFID readers to deliver quick and accurate reporting.

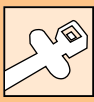
RFID (Radio Frequency Identification) is a digital system to manage equipment inspections and reporting for business that are still using paper based systems and wants to improve resource performance.

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
- Manage equipment inspections, maintenance work etc.
- 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 process



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.

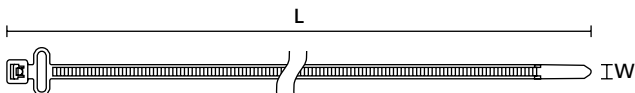
Features and Benefits

- 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), Polyamide 6.6, UV-resistant (PA66W)
Idle Temperature	-40 °C to +85 °C
Operating Temperature	-25 °C to +85 °C
Tensile Strength	225 N
Flammability	UL94 V2



T50RFID, MCTRFID



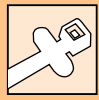
TYPE	Frequency	Bundle Ø min.	Bundle Ø max.	Width (W)	Length (L)	Colour	Pack Qty	Material	Article-No.	Price
T50RFIDCLA	125 kHz (LF)	1.5	50.0	4.6	200.0	Yellow (YE)	100 pcs.	PA66	111-01638	\$ 5.90
T50RFIDCHA	13.56 MHz (HF)	1.5	50.0	4.6	200.0	Yellow (YE)	100 pcs.	PA66	111-01639	\$5.90
	13.56 MHz (HF)	1.5	50.0	4.6	200.0	Black (BK)	100 pcs.	PA66	111-01591	\$5.90
	13.56 MHz (HF)	1.5	50.0	4.6	200.0	Black (BK)	100 pcs.	PA66W	111-02406	\$6.00
	13.56 MHz (HF)	1.5	50.0	4.6	200.0	Light Blue (LTBU)	100 pcs.	PA66	111-01673	\$5.90
	13.56 MHz (HF)	1.5	50.0	4.6	200.0	Fluorescent Green (FLGN)	100 pcs.	PA66	111-01796	\$5.90

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. All prices quoted are exclusive of GST and in Singapore Dollars.

= Minimum Loop Tensile Strength for Cable Ties (Newton)



For product specific approvals and specifications please refer to the Appendix.



Detectable cable ties with integrated RFID transponder

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

Metal content RFID cable ties offer an innovative solution for unique and fast product identification thanks to the fitting of a transponder directly to the cable tie. The metal content RFID cable ties are made with a percentage of a metallic trace element (magnet/X-Ray) and have been especially developed for industries where the potential for foreign body contamination is a problem. The ties can be used for securing, serialisation, tracking and identification of products e.g. in the food processing or pharmaceutical industry to support quality control effort.

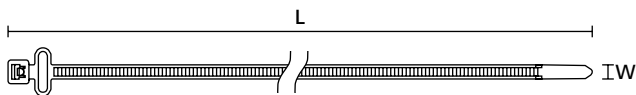
Features and benefits

- 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)	
Frequency	125 kHz (LF)	13.56 MHz (HF)
Idle Temperature	-40 °C to +85 °C	
Operating Temperature	-40 °C to +85 °C	-25 °C to +85 °C
Tensile Strength	225 N	
Flammability	UL94 HB	



T50RFID, MCTRFID

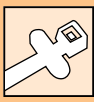
TYPE	Frequency	Bundle Ø min.	Bundle Ø max.	Width (W)	Length (L)	Colour	Pack Qty	Article-No.	Price
MCTRFIDCLA	125 kHz (LF)	1.5	50.0	4.6	200.0	Blue (BU)	100 pcs.	111-01976	\$6.00
MCTRFIDCHA	13.56 MHz (HF)	1.5	50.0	4.6	200.0	Blue (BU)	100 pcs.	111-01676	\$6.00

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.
All prices quoted are exclusive of GST and in Singapore Dollars.

= Minimum Loop Tensile Strength for Cable Ties (Newton)



For product specific approvals and specifications please refer to the Appendix.



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.

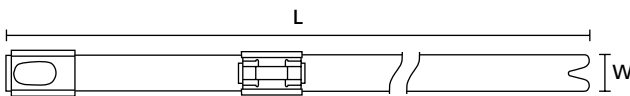
Features and benefits

- 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
Tensile Strength	1,020 N	
Flammability	non-burning (except coating)	



MBTRFID

TYPE	Frequency	Bundle Ø min.	Bundle Ø max.	Width (W)	Length (L)	Colour	Pack Qty	Article-No.	Price
MBT8HFRCRFID	13.56 MHz (HF)	12.0	17.0	7.9	201.0	Red (RD)	50 pcs.	156-01167	\$18.60
MBT14HFRCRFID	13.56 MHz (HF)	17.0	102.0	7.9	362.0	Red (RD)	50 pcs.	111-01586	\$19.30
MBT20HFRCRFID	13.56 MHz (HF)	17.0	152.0	7.9	521.0	Red (RD)	50 pcs.	111-01587	\$19.80
MBT27HFRCRFID	13.56 MHz (HF)	17.0	203.0	7.9	681.0	Red (RD)	50 pcs.	111-01588	\$20.30
MBT33HFRCRFID	13.56 MHz (HF)	17.0	254.0	7.9	838.0	Red (RD)	50 pcs.	111-01589	\$20.70
MBT8HHFRFID	869 MHz (UHF)	12.0	17.0	7.9	201.0	Red (RD)	50 pcs.	156-01565	\$18.60
MBT14HHFRFID	869 MHz (UHF)	12.0	102.0	7.9	362.0	Red (RD)	50 pcs.	156-01566	\$19.80
MBT20HHFRFID	869 MHz (UHF)	12.0	152.0	7.9	521.0	Red (RD)	50 pcs.	156-01567	\$19.80
MBT27HHFRFID	869 MHz (UHF)	12.0	203.0	7.9	681.0	Red (RD)	50 pcs.	156-01568	\$20.30
MBT33HHFRFID	869 MHz (UHF)	12.0	254.0	7.9	838.0	Red (RD)	50 pcs.	156-01569	\$20.70

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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 = Minimum Loop Tensile Strength for Cable Ties (Newton)



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.

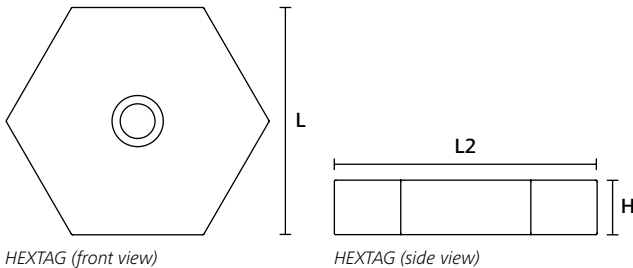
Features and benefits

- 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)
Frequency	13.56 MHz (HF)
Idle Temperature	-40 °C to +85 °C
Operating Temperature	-40 °C to +85 °C
Flammability	UL 94 V2

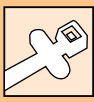


TYPE	Frequency	Height (H)	Length (L)	Length (L2)	Colour	Pack Qty	Article-No.	Price
RFID HEXTAG	13.56 MHz (HF)	8.0	33.4	38.39	Yellow (YE)	100 pcs.	151-03128	\$6.90

All dimensions in mm. Subject to technical changes.
 Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.
 All prices quoted are exclusive of GST and in Singapore Dollars.



For product specific approvals and specifications please refer to the Appendix.



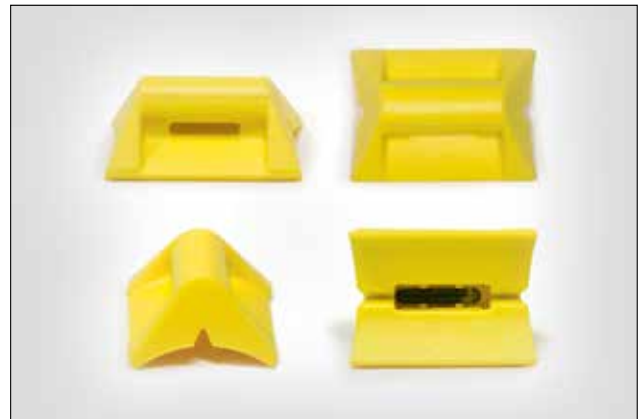
Accessories with RFID transponder

RFID CRADLE

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.

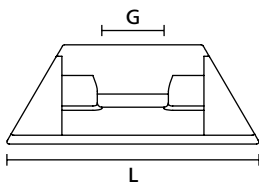
Features and benefits

- 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

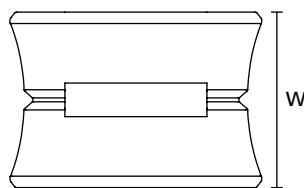


RFID CRADLE – Can be used with a standard HellermannTyton cable tie.

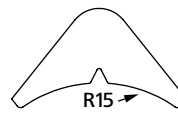
Operating Temperature	-25 °C to +60 °C
Interfaces	USB, HID
L x W x H	110 mm x 110 mm x 30 mm



CRADLE (front view)



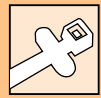
CRADLE (rear view)



CRADLE (side view)

PART NO.	Frequency	Width (W)	Length (L)	Strap Width max. (G)	Colour	Pack Qty	Article-No.	Price
RFID CRADLE	13.56 MHz (HF)	19.8	27.9	7.9	Yellow (YE)	100 pcs.	151-01472	\$6.90

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.
All prices quoted are exclusive of GST and in Singapore Dollars.



RFID Readers

RFID Handheld Reader

The HS9 handheld RFID readers are designed to read LF transponders and read/write to HF transponders fitted to HellermannTyton RFID 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, read-only) and for high-frequency (HF, 13.56 MHz, read and write) 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.	Price
RFID-HS9BT-LF	125 kHz (LF)	165 g	556-00701	\$1,685
RFID-HS9BT-HF	13.56 MHz (HF)	185 g	556-00700	\$2,297

Subject to technical changes.
All prices quoted are exclusive of GST and in Singapore Dollars.

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

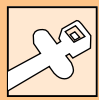


RFID-DT22 – Desktop reader for high frequency (HF) transponders.

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.	Price
RFID-DT22-HF	13.56 MHz (HF)	200 g	556-00702	\$1,531

Subject to technical changes.
All prices quoted are exclusive of GST and in Singapore Dollars.



Accessories with RFID transponder

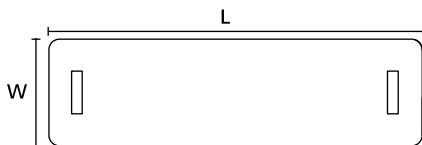
HS7020 - Ultra High Frequency (UHF)

RFID Tags are self-adhesive or can be fixed with HellermannTyton PA66 cable ties. Also available for use in contact with metal surfaces.

The exclusive HellermannTyton encapsulation system allows greater identifying durability given the fact that it protects the RFID transponder and the barcode engraved against damage caused by water impacts or harsh environments. They can be supplied with customers logo and / or barcodes for contact reading.

Features and benefits

- Product with encapsulated transponder
- Can be supplied with customer logo and / or barcode printed
- Resistant to harsh environments
- Remote reading



HS7020



HS7020 – RFID identification tag

MATERIAL	Polyurethane resin (PUR)
Colour	White (WH)
Operating Temperature	-20 °C to +80 °C
Flammability	UL94 HB

TYPE	Frequency	Width (W)	Length (L)	Colour	Pack Cont.	Article-No.	Price
HS7020	860 - 960 MHz	20.0	70.0	White (WH)	100 pcs.	559-00000	\$5.70

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

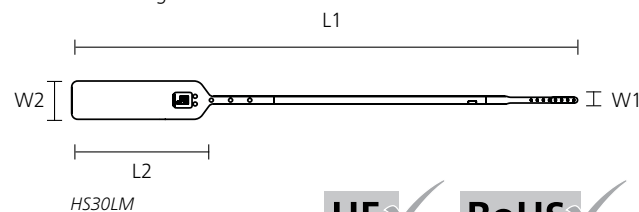
Security seals with integrated RFID transponder

HS30LM - Ultra High Frequency (UHF)

RFID security seal has been developed to identify and bundle the component at the same time, no need for screws or adhesive. The exclusive HellermannTyton encapsulation system allows greater identifying durability given the fact that it protects the RFID transponder and the barcode engraved against damage caused by water impacts or harsh environments. They can be supplied with customers logo and / or barcodes for contact reading.

Features and benefits

- Product with tag encapsulation
- Can be supplied with customer logo and / or barcode printed
- Resistant to harsh environments
- Remote reading



HS30LM



HS7-020 – Security seal with integrated RFID transponder

MATERIAL	Polypropylene (PP), Polyurethane resin, unfilled (PUR)
Colour	White (WH)
Operating Temperature	-20 °C to +80 °C
Tensile Strength	148 N
Flammability	UL94 V2

TYPE	Frequency	Bundle Ø max.	Width (W1)	Width (W2)	Length (L1)	Length (L2)	Colour	Pack Cont.	Article-No.	Price
HS30LM	860 - 960 MHz	58.0	20.0	4.0	300.0	55.0	White (WH)	100 pcs.	111-02204	\$5.40

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



UHF RFID Reader

RU1 Handheld Reader

RU1 is an Android rugged Mobile PDA Scanner. It features quad core processor, 8000mAh battery, barcode scanning, as well as high-level UHF RFID capability. Equipped with R2000 circularly (4.0dBi) polarized antenna. That it can read tags in bulk from long distances enables enterprises to deploy this single device in many areas with enhanced efficiency, especially in asset management, retail, warehousing, fleet management, etc.

Features and benefits

- Powerful Application Performance
- 4G LTE (Faster Connectivity)
- Superior UHF RFID Capability
- Rugged and Durable
- Multiple Data Capture Options
- Continuous use for over 12 hours (depending on user environment)
- Charging cradle included



RU1 – Handheld reader for ultra high frequency (UHF) transponders.

Operating Temperature	-20 °C to +50 °C
Interfaces	USB 2.0 Type-C, OTG
L x W x H	164 mm x 24 mm x 80 mm
Display	5.2" IPS FHD 1920x1080
Power	Li-ion, rechargeable, 8000mAh, Standby: over 500 hours
CPU	Cortex-A53 Quad-core 1.3GHz
RAM + ROM	2GB + 16GB
Expansion Slot	1 slot for SIM card, 1 slot for SIM or TF card Supports up to 32 GB Micro SD card

TYPE	Length (L)	Width (W)	Height (H)	Frequency	Weight	Article-No.	Price
RU1	164	24	80	865-868 MHz, 920-925 MHz, 902-928 Mhz	654 g	556-00721	\$2,500

Subject to technical changes.



MADE FOR REAL

HellermannTyton

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