





Custom color options are available, and tags can be embossed or laser-engraved with a logo or message for branding or enhanced visual identification.

## **TECHNOLOGY HIGHLIGHTS:**

- HF 13.56 MHz version readable with ISO/ IEC 15693 compatible NFC devices.
- Broadband UHF version for worldwide use at 860 to 960 MHz.
- Fully interoperable, standards compliant.
- Bendable TPE housing.
- Waterproof; resistant to chemicals, impact and UV rays.
- Food compatible.
- Large user memory.

# PLIABLE RFID TAGS MOUNT ANYWHERE AND ENDURE RUGGED CONDITIONS

- Flexibility Repeated bending will not impede performance; enables secure mounting on rounded or irregular surfaces
- **High durability** Resistant to liquids, dust, impact and weather extremes
- Enhanced reliability Precise, consistent read ranges when mounted to plastic or wood

HID Global\* SlimFlex™ RFID tags are among the most advanced general purpose flexible tags available. The unique thermoplastic elastomer (TPE) housings - made from the same materials used worldwide to manufacture automobile pipes and hoses - tolerate repeated bending or torsion, while maintaining excellent performance characteristics. The durable housing safeguards embedded electronics, even under harsh conditions.

SlimFlex passive contactless transponders improve data collection speed and accuracy for logistics applications.

Anti-collision functionality, fast data-rate communication and password data protection enable precise, reliable reading and updating of each tag's large user memory. SlimFlex tags are compliant with ISO certified readers and modules. All SlimFlex RFID tags are waterproof and food compatible. They can be used in deep-sea operations, provide high resistance to aggressive liquids and UV rays, and deliver reliable performance and reading stability at high and sub-freezing temperatures.

Available in multiple configurations:

- Rectangular SlimFlex tags attach snugly to round or irregular surfaces, such as cylindrical containers, plastic pipes, helmets or even trees. These tags conform to surface contours, and can be securely attached with cable ties, industrial adhesives, rivets or screws.
- Designed for garments, each SlimFlex Laundry tag withstands chemical exposure and high temperature of related washing cycles. This small, flexible white strip can be discreetly sewn into the hem of clothing, unnoticeable to users during everyday operations. With a read range of up to 16.4 ft (5 m), SlimFlex Laundry tags enable automated sorting, inventory and accounting for commercial cleaners. For commercial linen, please refer to the HID LinTag™, which has been optimized for this use case.
- The large SlimFlex Square tag delivers read ranges of up to 26 ft (8 m) in dry conditions when mounted to any non-metal surface. The tag maintains its read range even in wet conditions when mounted vertically to a flat surface or extended from a corner. Among other applications, this tag works well for tracking non-metal pallets and shipping containers.



## **APPLICATION AREAS:**

## **Asset tracking and logistics**

- Inventory management
- Itemize tracking of pallets and goods
- Cylindrical items such as plastic bins or tree trunks

#### Laundry, medical & health

- Uniform companies
- Commercial laundry
- Hospital laundry
- Medical compartments

#### **Returnable transport items**

Shipping container or pallet tracking

## Waste management

 Commercial and industrial plastic bin identification

# **SPECIFICATIONS**

ELECTRONIC  Operating Frequency  Chip Type  Memory  1024  Anti-Collision  Reading Distance (2W reader ERP, free space)  PHYSICAL  Dimensions  Mounting Method  Cable tie,  Fixation Hole Size  Any mother of the space of the spac	HF 200 629990 13.56 MHz -Code SLIx 4 bit EEPROM  N/A  5x.1.0 x 0.1 in x 25 x 3 mm) e, glue, rivet, screw .1 in (6 x 2.5 mm) haterial (vertical mount) v (Pantone 108)	\$tandard 798990  3.0 × 1.0 × 0.1 in (77 × 25 × 3 mm)  Glue, rivet, screw  Ø 0.1 in (3 mm)  Plastic, dry wood  Green	200 798990-200  Up to 26.3 ft (8 m)  3.3 x 1.0 x 0.1 in (83 x 25 x 3 mm)  Cable tie vertical to surface, glue, rivet, screw  0.2 x 0.1 in (6 x 2.5 mm)  Any material (vertical mount)	301 798990-301 860-960 MH	## Laundry 2G 698992  Iz (worldwide)  ggs 3	Mini 69899A  Ift (5 m)  2.5 x 0.5 x 0.08 in (65 x 12 x 2 mm)  Cable tie, glue, rivet, screw 0.25 x 0.08 in (6.5 x 2 mm)	Square 698991  Up to 26.3 ft (8 m)  4.5 x 3.3 x 0.1 in (115 x 85 x 3 mm)  Glue, rivet, screw Ø 0.16 in (4 mm)
ELECTRONIC  Operating Frequency  Chip Type  Memory  1024  Anti-Collision  Reading Distance (2W reader ERP, free space)  PHYSICAL  Dimensions  Mounting Method  Cable tie,  Fixation Hole Size  Affixes To  Housing Material  Color  Weight  CHEMICAL AND	629990  13.56 MHz  Code SLIX  4 bit EEPROM  N/A  8 x 1.0 x 0.1 in  x 25 x 3 mm)  e, glue, rivet, screw  1.1 in (6 x 2.5 mm)  naterial (vertical mount)	798990  3.0 × 1.0 × 0.1 in (77 × 25 × 3 mm)  Glue, rivet, screw  Ø 0.1 in (3 mm)  Plastic, dry wood  Green	798990-200  Up to 26.3 ft (8 m)  3.3 x 1.0 x 0.1 in (83 x 25 x 3 mm)  Cable tie vertical to surface, glue, rivet, screw  0.2 x 0.1 in (6 x 2.5 mm)  Any material (vertical	798990-301  860-960 MH  Hig  96 bit EPC + 64 bit TIE  Yes  3.4 × 1.0 × 0.1 in (87 × 25 × 3 mm)  Cable tie flush with surface, glue, rivet, screw  Ø 0.27 in (7 mm)	698992  Iz (worldwide)  gs 3  2 + 512 bit user memory  Up to 16.4  2.2 × 0.5 × 0.08 in (55 × 12 × 2 mm)  Sew into hem, glue  [none]	69899A  69899A  2.5 x 0.5 x 0.08 in (65 x 12 x 2 mm)  Cable tie, glue, rivet, screw  0.25 x 0.08 in	698991  Up to 26.3 ft (8 m)  4.5 x 3.3 x 0.1 in (115 x 85 x 3 mm)  Glue, rivet, screw
ELECTRONIC  Operating Frequency  Chip Type  Memory  1024  Anti-Collision  Reading Distance (2W reader ERP, free space)  PHYSICAL  Dimensions  Mounting Method  Cable tie,  Fixation Hole Size  Affixes To  Housing Material  Color  Weight  CHEMICAL AND	13.56 MHz  -Code SLIx 4 bit EEPROM  N/A  3 x 1.0 x 0.1 in x 25 x 3 mm)  e, glue, rivet, screw  .1 in (6 x 2.5 mm)  naterial (vertical mount)	3.0 × 1.0 × 0.1 in (77 × 25 × 3 mm) Glue, rivet, screw Ø 0.1 in (3 mm) Plastic, dry wood	Up to 26.3 ft (8 m)  3.3 x 1.0 x 0.1 in (83 x 25 x 3 mm)  Cable tie vertical to surface, glue, rivet, screw  0.2 x 0.1 in (6 x 2.5 mm)  Any material (vertical	860-960 MH Hig 96 bit EPC + 64 bit TIE Yes  3.4 x 1.0 x 0.1 in (87 x 25 x3 mm) Cable tie flush with surface, glue, rivet, screw Ø 0.27 in (7 mm)	z (worldwide)   gs 3	2.5 x 0.5 x 0.08 in (65 x 12 x 2 mm) Cable tie, glue, rivet, screw 0.25 x 0.08 in	Up to 26.3 ft (8 m)  4.5 x 3.3 x 0.1 in (115 x 85 x 3 mm)  Glue, rivet, screw
Operating Frequency  Chip Type  Memory  1024  Anti-Collision  Reading Distance (2W reader ERP, free space)  PHYSICAL  Dimensions  Mounting Method  Cable tie,  Fixation Hole Size  Affixes To  Housing Material  Color  Weight  CHEMICAL AND	N/A  N/A  S x 1.0 x 0.1 in x 25 x 3 mm) e, glue, rivet, screw  1.1 in (6 x 2.5 mm) enaterial (vertical mount)	(77 x 25 x 3 mm)  Glue, rivet, screw  Ø 0.1 in (3 mm)  Plastic, dry wood  Green	3.3 x 1.0 x 0.1 in (83 x 25 x 3 mm)  Cable tie vertical to surface, glue, rivet, screw  0.2 x 0.1 in (6 x 2.5 mm)  Any material (vertical	Hig 96 bit EPC + 64 bit TIE Yes 3.4 x 1.0 x 0.1 in (87 x 25 x 3 mm) Cable tie flush with surface, glue, rivet, screw Ø 0.27 in (7 mm)	2.2 x 0.5 x 0.08 in (55 x 12 x 2 mm)  Sew into hem, glue  [none]	2.5 x 0.5 x 0.08 in (65 x 12 x 2 mm) Cable tie, glue, rivet, screw 0.25 x 0.08 in	4.5 x 3.3 x 0.1 in (115 x 85 x 3 mm) Glue, rivet, screw
Chip Type I-C Memory 1024  Anti-Collision Reading Distance (2W reader ERP, free space)  PHYSICAL Dimensions 3.3 (83 x  Mounting Method Cable tie,  Fixation Hole Size 0.2 x 0.1  Affixes To Any material Color Yellow Weight CHEMICAL AND	N/A  N/A  S x 1.0 x 0.1 in x 25 x 3 mm) e, glue, rivet, screw  1.1 in (6 x 2.5 mm) enaterial (vertical mount)	(77 x 25 x 3 mm)  Glue, rivet, screw  Ø 0.1 in (3 mm)  Plastic, dry wood  Green	3.3 x 1.0 x 0.1 in (83 x 25 x 3 mm)  Cable tie vertical to surface, glue, rivet, screw  0.2 x 0.1 in (6 x 2.5 mm)  Any material (vertical	Hig 96 bit EPC + 64 bit TIE Yes 3.4 x 1.0 x 0.1 in (87 x 25 x 3 mm) Cable tie flush with surface, glue, rivet, screw Ø 0.27 in (7 mm)	2.2 x 0.5 x 0.08 in (55 x 12 x 2 mm)  Sew into hem, glue  [none]	2.5 x 0.5 x 0.08 in (65 x 12 x 2 mm) Cable tie, glue, rivet, screw 0.25 x 0.08 in	4.5 x 3.3 x 0.1 in (115 x 85 x 3 mm) Glue, rivet, screw
Memory 1024 Anti-Collision Reading Distance (2W reader ERP, free space) PHYSICAL Dimensions 3.3 (83 x Mounting Method Cable tie, Fixation Hole Size 0.2 x 0.1 Affixes To Any material Color Yellow Weight CHEMICAL AND	N/A  N/A  5 x 1.0 x 0.1 in x 25 x 3 mm) e, glue, rivet, screw 1.1 in (6 x 2.5 mm) naterial (vertical mount)	(77 x 25 x 3 mm)  Glue, rivet, screw  Ø 0.1 in (3 mm)  Plastic, dry wood  Green	3.3 x 1.0 x 0.1 in (83 x 25 x 3 mm)  Cable tie vertical to surface, glue, rivet, screw  0.2 x 0.1 in (6 x 2.5 mm)  Any material (vertical	96 bit EPC + 64 bit TIE  Yes  3.4 x 1.0 x 0.1 in (87 x 25 x 3 mm)  Cable tie flush with surface, glue, rivet, screw Ø 0.27 in (7 mm)	2.2 x 0.5 x 0.08 in (55 x 12 x 2 mm)  Sew into hem, glue  [none]	2.5 x 0.5 x 0.08 in (65 x 12 x 2 mm) Cable tie, glue, rivet, screw 0.25 x 0.08 in	4.5 x 3.3 x 0.1 in (115 x 85 x 3 mm) Glue, rivet, screw
Anti-Collision Reading Distance (2W reader ERP, free space) PHYSICAL Dimensions 3.3 (83 x  Mounting Method Cable tie, Fixation Hole Size 0.2 x 0.1  Affixes To Any method Housing Material Color Yellow Weight CHEMICAL AND	N/A  5 x 1.0 x 0.1 in  x 25 x 3 mm) a, glue, rivet, screw  1.1 in (6 x 2.5 mm) haterial (vertical mount)	(77 x 25 x 3 mm)  Glue, rivet, screw  Ø 0.1 in (3 mm)  Plastic, dry wood  Green	3.3 x 1.0 x 0.1 in (83 x 25 x 3 mm)  Cable tie vertical to surface, glue, rivet, screw  0.2 x 0.1 in (6 x 2.5 mm)  Any material (vertical	Yes  3.4 x 1.0 x 0.1 in (87 x 25 x 3 mm)  Cable tie flush with surface, glue, rivet, screw Ø 0.27 in (7 mm)	Up to 16.4  2.2 x 0.5 x 0.08 in (55 x 12 x 2 mm)  Sew into hem, glue  [none]	2.5 x 0.5 x 0.08 in (65 x 12 x 2 mm) Cable tie, glue, rivet, screw 0.25 x 0.08 in	4.5 x 3.3 x 0.1 in (115 x 85 x 3 mm) Glue, rivet, screw
Reading Distance (2W reader ERP, free space)  PHYSICAL  Dimensions 3.3 (83 x  Mounting Method Cable tie,  Fixation Hole Size 0.2 x 0.1  Affixes To Any method Color Yellow  Weight  CHEMICAL AND	3 x 1.0 x 0.1 in x 25 x 3 mm) e, glue, rivet, screw .1 in (6 x 2.5 mm) naterial (vertical mount)	(77 x 25 x 3 mm)  Glue, rivet, screw  Ø 0.1 in (3 mm)  Plastic, dry wood  Green	3.3 x 1.0 x 0.1 in (83 x 25 x 3 mm)  Cable tie vertical to surface, glue, rivet, screw  0.2 x 0.1 in (6 x 2.5 mm)  Any material (vertical	3.4 x 1.0 x 0.1 in (87 x 25 x 3 mm) Cable tie flush with surface, glue, rivet, screw Ø 0.27 in (7 mm)	2.2 x 0.5 x 0.08 in (55 x 12 x 2 mm) Sew into hem, glue [none]	2.5 x 0.5 x 0.08 in (65 x 12 x 2 mm) Cable tie, glue, rivet, screw 0.25 x 0.08 in	4.5 x 3.3 x 0.1 in (115 x 85 x 3 mm) Glue, rivet, screw
reader ERP, free space)  PHYSICAL  Dimensions 3.3 (83 x  Mounting Method Cable tie,  Fixation Hole Size 0.2 x 0.1  Affixes To Any method Color Yellow Weight  CHEMICAL AND	3 x 1.0 x 0.1 in x 25 x 3 mm) e, glue, rivet, screw .1 in (6 x 2.5 mm) naterial (vertical mount)	(77 x 25 x 3 mm)  Glue, rivet, screw  Ø 0.1 in (3 mm)  Plastic, dry wood  Green	3.3 x 1.0 x 0.1 in (83 x 25 x 3 mm)  Cable tie vertical to surface, glue, rivet, screw  0.2 x 0.1 in (6 x 2.5 mm)  Any material (vertical	(87 x 25 x3 mm)  Cable tie flush with surface, glue, rivet, screw  Ø 0.27 in (7 mm)	2.2 x 0.5 x 0.08 in (55 x 12 x 2 mm) Sew into hem, glue [none]	2.5 x 0.5 x 0.08 in (65 x 12 x 2 mm) Cable tie, glue, rivet, screw 0.25 x 0.08 in	4.5 x 3.3 x 0.1 in (115 x 85 x 3 mm) Glue, rivet, screw
Dimensions 3.3 (83 x  Mounting Method Cable tie,  Fixation Hole Size 0.2 x 0.1  Affixes To Any mother and Methods Meth	x 25 x 3 mm) e, glue, rivet, screw .1 in (6 x 2.5 mm) haterial (vertical mount)	(77 x 25 x 3 mm)  Glue, rivet, screw  Ø 0.1 in (3 mm)  Plastic, dry wood  Green	(83 x 25 x 3 mm)  Cable tie vertical to surface, glue, rivet, screw  0.2 x 0.1 in (6 x 2.5 mm)  Any material (vertical	(87 x 25 x3 mm)  Cable tie flush with surface, glue, rivet, screw  Ø 0.27 in (7 mm)	(55 x 12 x 2 mm)  Sew into hem, glue  [none]	(65 x 12 x 2 mm)  Cable tie, glue, rivet, screw  0.25 x 0.08 in	(115 x 85 x 3 mm) Glue, rivet, screw
Mounting Method Cable tie,  Fixation Hole Size 0.2 x 0.1  Affixes To Any material  Color Yellow  Weight  CHEMICAL AND	x 25 x 3 mm) e, glue, rivet, screw .1 in (6 x 2.5 mm) haterial (vertical mount)	(77 x 25 x 3 mm)  Glue, rivet, screw  Ø 0.1 in (3 mm)  Plastic, dry wood  Green	(83 x 25 x 3 mm)  Cable tie vertical to surface, glue, rivet, screw  0.2 x 0.1 in (6 x 2.5 mm)  Any material (vertical	(87 x 25 x3 mm)  Cable tie flush with surface, glue, rivet, screw  Ø 0.27 in (7 mm)	(55 x 12 x 2 mm)  Sew into hem, glue  [none]	(65 x 12 x 2 mm)  Cable tie, glue, rivet, screw  0.25 x 0.08 in	(115 x 85 x 3 mm) Glue, rivet, screw
Mounting Method Cable tie,  Fixation Hole Size 0.2 x 0.1  Affixes To Any mo Housing Material Color Yellow Weight CHEMICAL AND	e, glue, rivet, screw  1 in (6 x 2.5 mm)  naterial (vertical mount)	Glue, rivet, screw  Ø 0.1 in (3 mm)  Plastic, dry wood  Green	Cable tie vertical to surface, glue, rivet, screw 0.2 x 0.1 in (6 x 2.5 mm) Any material (vertical	Cable tie flush with surface, glue, rivet, screw Ø 0.27 in (7 mm)	Sew into hem, glue	Cable tie, glue, rivet, screw 0.25 x 0.08 in	Glue, rivet, screw
Fixation Hole Size 0.2 x 0.1  Affixes To Any material  Color Yellow  Weight  CHEMICAL AND	.1 in (6 x 2.5 mm) naterial (vertical mount)	Ø 0.1 in (3 mm)  Plastic, dry wood  Green	glue, rivet, screw  0.2 x 0.1 in (6 x 2.5 mm)  Any material (vertical	glue, rivet, screw Ø 0.27 in (7 mm)	[none]	0.25 x 0.08 in	
Affixes To Any man Housing Material Color Yellow Weight CHEMICAL AND	naterial (vertical mount)	Plastic, dry wood Green	Any material (vertical		+		Ø 0.16 in (4 mm)
Housing Material  Color Yellow Weight  CHEMICAL AND	mount)	Green		Plastic, dry wood		Any material	
Color Yellow Weight CHEMICAL AND	v (Pantone 108)			TDE	Cloth fabric, plastic	(vertical mount)	Plastic, dry wood
Weight CHEMICAL AND	V (Pantone IU8)		V II (D	TPE	NA/1-1		V II (D 1 100)
CHEMICAL AND			Yellow (Par	ntone IU8)	Whi	T	Yellow (Pantone 108)
CHEMICAL AND		0.2 02	z (6 g)		0.05 oz (1.4 g)	0.06 oz (1.6 g)	0.9 oz (25 g)
MECHANICAL RESISTANCE							
Water			IP68, 6	68° F (20° C), 6.6 ft (2 m)	x 24 h		
Withstands Exposure To	Mineral oil, petroleum, salt mist, vegetable oil, HCL (10%), Bleach (5%); UV light; food compatible						
Environmental Test Conditions	68° F (20° C), 100 h						
Vibration	IEC 68.2.6 [10 g, 10 to 2000 Hz, 3 axis, 2.5 h]						
Shock	IEC 68.2.29 [40 g, 18 ms, 6 axis, 2000 times]						
Axial / Radial Force	1000 N, 10 sec						
Water Press Extraction (set point)	N/A				70 bars (5 min), isostatic		
Impact	IEC 62262-IK06						
Drop Test				100 drops 5.9 ft / 1.8m			
Bending	5.9 in (150 mm) curve radius				500 each side, 10 mm radius; 500 each side, 180° twist	5.9 in (150 mm) curve radius	3000 times when vertically mounted
THERMAL					ooo cacii siac, ioo kiisk		
Storage	-40° to +158° F (-40° to +70° C)				-40° to +185° F (-40° to +85° C)		-40° to +158° F (-40° to +70° C)
Operating Temperature	-40° to +158° F (-40° to +70° C)				-40° to +185° F (	(-40° to +85° C)	-40° to +158° F (-40° to +70° C)
Peak	212° F (100° C), 100 h;				248° F (120° C), 100 h; 428° F (220° C) [20 bars, 10 × 10 sec, with thin tissue between iron and tag]		230° F (110° C), 100 h
Shock/Fatigue	-40° to +158° F (-40° to +70° C) , 100 x 5 min with 30 sec transition				+68° to +320° F (+20° to +160° C), 200 × 5 min with 30 sec transition	-40° to +185° F (-40° to +85° C) , 100 x 5 min with 30 sec transition	-40° to +158° F (-40° to +70° C) , 100 x 5 min with 30 sec transition
OTHER							
	C 15693, ISO/IEC 0-3 Mode 1, NFC						
	ngraving, custom sed logo, alternate colors	Custom embossed logo, alternate colors		Laser engravir	g, custom embossed logo, alternate colors		
Box Size 1,	1,000 pcs	500 pcs.	1,000	) pcs.	1,500	pcs.	240 pcs.
Warranty		·		2 Years			



North America: +1 512 776 9000 Toll Free: 1 800 237 7769 Europe, Middle East, Africa: +44 1440 714 850 Asia Pacific: +852 3160 9800 Latin America: +52 55 5081 1670 © 2015 HID Global Corporation/ASSA ABLOY AB. All rights reserved. HID, HID Global, the HID Blue Brick logo, the Chain Design, and SlimFlex are trademarks or registered trademarks of HID Global or its licensor(s)/supplier(s) in the US and other countries and may not be used without permission. All other trademarks, service marks, and product or service names are trademarks or registered trademarks of their respective owners.

2015-07-05-hid-rfid-slimflex-tag-ds-en PLT-00284