



SlimFlex™ Tag



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

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.

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.



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

	SlimFlex™ Tag						
	HF	UHF					
	200	Standard	200	301	Laundry 2G	Mini	Square
Base Model Number	629990	798990	798990-200	798990-301	698992	69899A	698991
ELECTRONIC							
Operating Frequency	13.56 MHz	860-960 MHz (worldwide)					
Chip Type	I-Code SLix	Higgs 3					
Memory	1024 bit EEPROM	96 bit EPC + 64 bit TID + 512 bit user memory					
Anti-Collision	Yes						
Reading Distance (2W reader ERP, free space)	N/A	Up to 26.3 ft (8 m)			Up to 16.4 ft (5 m)		Up to 26.3 ft (8 m)
PHYSICAL							
Dimensions	3.3 x 1.0 x 0.1 in (83 x 25 x 3 mm)	3.0 x 1.0 x 0.1 in (77 x 25 x 3 mm)	3.3 x 1.0 x 0.1 in (83 x 25 x 3 mm)	3.4 x 1.0 x 0.1 in (87 x 25 x 3 mm)	2.2 x 0.5 x 0.08 in (55 x 12 x 2 mm)	2.5 x 0.5 x 0.08 in (65 x 12 x 2 mm)	4.5 x 3.3 x 0.1 in (115 x 85 x 3 mm)
Mounting Method	Cable tie, glue, rivet, screw	Glue, rivet, screw	Cable tie vertical to surface, glue, rivet, screw	Cable tie flush with surface, glue, rivet, screw	Sew into hem, glue	Cable tie, glue, rivet, screw	Glue, rivet, screw
Fixation Hole Size	0.2 x 0.1 in (6 x 2.5 mm)	Ø 0.1 in (3 mm)	0.2 x 0.1 in (6 x 2.5 mm)	Ø 0.27 in (7 mm)	[none]	0.25 x 0.08 in (6.5 x 2 mm)	Ø 0.16 in (4 mm)
Affixes To	Any material (vertical mount)	Plastic, dry wood	Any material (vertical mount)	Plastic, dry wood	Cloth fabric, plastic	Any material (vertical mount)	Plastic, dry wood
Housing Material	TPE						
Color	Yellow (Pantone 108)	Green	Yellow (Pantone 108)		White		Yellow (Pantone 108)
Weight	0.2 oz (6 g)				0.05 oz (1.4 g)	0.06 oz (1.6 g)	0.9 oz (25 g)
CHEMICAL AND MECHANICAL RESISTANCE							
Water	IP68, 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							
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 x 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 x 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							
Standards	ISO/IEC 15693, ISO/IEC 18000-3 Mode 1, NFC	UHF EPC Class 1 Gen 2, ISO 18000-6C					
Options	Laser engraving, custom embossed logo, alternate colors	Custom embossed logo, alternate colors	Laser engraving, custom embossed logo, alternate colors				
Box Size	1,000 pcs	500 pcs.	1,000 pcs.		1,500 pcs.		240 pcs.
Warranty	2 Years						

