SlimFlex™ Tag

Pliable RFID tags mount anywhere and endure rugged conditions



HID Global® SlimFlex™ RFID tags are among the most advanced general purpose flexible tags available. The unique thermoplastic polyurethane (TPU) 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 datarate 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. 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.
 SlimFlex Laundry tags enable
 automated sorting, inventory and
 accounting for commercial cleaners.
 For commercial linen, please refer
 to the HID LinTRAK® tag, which has
 been optimized for this use case.
- The SlimFlex Tag Washer has been designed with one reinforced hole to rivet it. This version is ideal whenever a SlimFlex tag shall be fixed with a single rivet to hang down from metal bars or be placed on a hook.



KEY BENEFITS:

- 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

TECHNOLOGY HIGHLIGHTS:

- HF 13.56 MHz version readable with ISO/IEC 15693 compatible NFC devices with tag option for on-metal use.
- Broadband UHF version for worldwide use at 860 to 960 MHz.
- Fully interoperable, standards compliant.
- · Bendable, durable housing.
- Waterproof; resistant to chemicals, impact and UV rays.
- Large user memory.
- 1D barcode laser engraved optional





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

	SlimFlex™ Tag HF UHF								
	200	OM (on-metal)	Standard	200	301	Laundry 2G	Mini	Washer	
	000000000000000000000000000000000000000			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1	C	
Base Model Number	629990 (blank) 629990-020 (1D barcode)	62999C-101 (Yellow) 62999C-102 (White)	6M6990-101	6M6990-200 6M6990-220 (1D barcode)	6M6990-300	698992	69899A	6M6990-400	
	ELECTRONIC		T						
Operating Frequency	13.56 MHz		860-960 MHz (EU, US, JP)						
Chip Type	ICODE SLIX 1024 bit EEPROM		M730 128 bit EPC			Higgs 3		M730 128 bit EPC	
Memory Anti-Collision	Yes		128 DIT EPC			512 bit user memory + 96 bit EPC + 64 bit TID 128 bit E		128 DIL EPC	
Reading Distance (2W reader ERP, free space)	165		Up to 19.7 ft (6 m)			Up to 16.4 ft (5 m)	Up to 13.1 ft (4 m)	Up to 19.7 ft (6 m	
	PHYSICAL								
Dimensions	3.3 × 1.0 × 0.1 in (83 × 25 × 3 mm)	3.3 × 1.0 × 0.2 in (83 × 25 × 6 mm)	3.0 x 1.0 X 0.1 in (77 x 25 x 3 mm)	3.3 × 1.0 × 0.12 in (83 × 25 × 3 mm)	3.4 x 1.0 x 0.1 in (87 x 25 x3 mm)	2.2 x 0.5 x 0.08 in (55 x 12 x 2.2 mm)	2.5 x 0.5 x 0.08 in (65 x 12 x 2 mm)	4.3 x 1.0 x 0.1 in (110 x 25 x 3 mm	
Mounting Method	Cable tie, glue, rivet, screw	Cable tie	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	Aluminum Rivet	
Fixation Hole Size	0.2 x 0.1 in (6 x 2.5 mr		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 0.18 in (4.8 mm	
Affixes To	Any material (vertical mount)	Any material (flat mount)	Plastic, dry wood	Any material (vertical mount)	Plastic, dry wood	Cloth fabric, plastic	Any material (vertical	mount)	
Housing Material	TPU	(liat illoulit)		(verticarificulti)		TPE	TPU		
		Yellow (Pantone 108)	Green	Valley /Dentene 100	\ \	White		Yellow	
Color	Yellow (Pantone 108)	White (RAL 9016)	1 1 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
Weight	0.2 oz (6 g)	0.3 oz (8.5 g)	0.2 oz (6 g)			0.05 oz (1.4 g)		0.3 oz (9 g)	
		MECHANICAL RESIS	STANCE						
Water	IP68, 68° F (20° C), 6.		1101 (100) DI 1 (FO)	TD/P Li					
Withstands Exposure To Environmental Test Conditions	Mineral oil, petroleum, salt mist, vegetable oil, HCL (10%), Bleach (5%); UV light 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)						70 bars (5 min)			
Impact	IEC 62262-IK06								
Drop Test	100 drops 5.9 ft (1.8 m)								
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		radius	
	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 × 10 sec, with thin tissue between iron and tag]			
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), 10 x 5 min with 30 sec transition	
	OTHER								
Standards	ISO/IEC 15693, 18000 Type 5 (if NDEF forma			n 2, ISO 18000-6C, RAI	N				
Options	Laser engraving, custo alternate colors	om encoding,	logo, alternate colors	Laser engraving, custom embossed logo, alternate colors					
Box Size	1,000 pcs	500 pcs	500 pcs.	1,000 pcs.		1,500 pcs.		1,000 pcs.	
Warranty	2 Years								











Web: www.rfidcanada.com

