

# 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 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. 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.
- 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					
Base Model Number	200	OM (on-metal)	Standard	200	301	Mini		
<b>Operating Frequency</b>	13.56 MHz	865-928 MHz (Global)						
<b>Chip Type</b>	ICODE SLIX2		M781					
<b>Memory</b>	1024 bit EEPROM		128 bit EPC, 512-bit UM					
<b>Anti-Collision</b>	Yes							
<b>Reading Distance (2W reader ERP, free space)</b>				Up to 19.7 ft (6 m)		Up to 13.1 ft (4 m)		
<b>PHYSICAL</b>								
<b>Dimensions</b>	0.92 x 0.69 x 0.13 in (23.3 x 17.5 x 3.3 mm)	3.3 x 1.0 x 0.2 in (83 x 25 x 6 mm)	3.0 x 1.0 x 0.1 in (77 x 25 x 3 mm)	3.3 x 1.0 x 0.12 in (83 x 25 x 3 mm)	3.4 x 1.0 x 0.1 in (87 x 25 x 3 mm)	2.5 x 0.5 x 0.08 in (65 x 12 x 2 mm)		
<b>Mounting Method</b>	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	Cable tie, glue, rivet, screw		
<b>Fixation Hole Size</b>	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)	0.25 x 0.08 in (6.5 x 2 mm)		
<b>Affixes To</b>	Any material (vertical mount)	Any material (flat mount)	Plastic, dry wood	Any material (vertical mount)	Plastic, dry wood	Any material (vertical mount)		
<b>Housing Material</b>	TPU							
<b>Color</b>	Yellow (Pantone 108) White (RAL 9016)	Yellow (Pantone 108)	Green	Yellow (Pantone 108)		White Yellow		
<b>Weight</b>	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)		
<b>CHEMICAL AND MECHANICAL RESISTANCE</b>								
<b>Water</b>	IP68, 68° F (20° C), 6.6 ft (2 m) x 24 h							
<b>Withstands Exposure To</b>	Mineral oil, petroleum, salt mist, vegetable oil, HCL (10%), Bleach (5%); UV light							
<b>Environmental Test Conditions</b>	68° F (20° C), 100 h							
<b>Vibration</b>	IEC 68.2.6 [10 g, 10 to 2000 Hz, 3 axis, 2.5 h]							
<b>Shock</b>	IEC 60068-2-27:2008 [40 g, 18 ms, 6 axis, 2000 times]							
<b>Axial / Radial Force</b>	1000 N, 10 sec							
<b>Water Press Extraction (set point)</b>						70 bars (5 min)		
<b>Impact</b>	IEC 62262-IK06							
<b>Drop Test</b>	100 drops 5.9 ft (1.8 m)							
<b>Bending</b>	5.9 in (150 mm) curve radius							
<b>THERMAL</b>								
<b>Storage</b>	-40° to +158° F (-40° to +70° C)							
<b>Operating Temperature</b>	-40° to +158° F (-40° to +70° C)							
<b>Peak</b>	212° F (100° C), 100 h							
<b>Shock/Fatigue</b>	-40° to +158° F (-40° to +70° C), 100 x 5 min with 30 sec transition							
<b>OTHER</b>								
<b>Standards</b>	ISO/IEC 15693, 18000-3 Mode 1, NFC Tag Type 5 (if NDEF formatted)		UHF EPC Class 1 Gen 2, ISO 18000-6C, RAIN					
<b>Options</b>	Laser engraving, custom encoding, alternate colors		Custom embossed logo, alternate colors	Laser engraving, custom embossed logo, alternate colors				
<b>Box Size</b>	250 pcs.	160 pcs.	250 pcs.	1,500 pcs.	250 pcs.			
<b>Warranty</b>	2 Years							



hidglobal.com

North America: +1 512 776 9000 | Toll Free: 1 800 237 7769

Europe, Middle East, Africa: +353 91 506 900

Asia Pacific: +852 3160 9800 | Latin America: +52 55 9171 1108

For more global phone numbers click here

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For more information, contact [tagsales@hidglobal.com](mailto:tagsales@hidglobal.com)

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