



**DURABLE TAGS WITH INTEGRATED CABLE TIES ENHANCE INVENTORY TRACKING WHILE PROTECTING CONTENTS OF INDUSTRIAL CONTAINERS**

- **Security** - RFID tags integrated into visually tamper-evident container seals
- **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

**TECHNOLOGY HIGHLIGHTS:**

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

HID Global® SlimFlex™ Seal Tag transponders are ideal for sealing industrial containers - bags, bins or boxes - preventing unauthorized access to contents while in storage or during distribution. Seal Tag units integrate powerful RFID chips with high durability components, and secure, tamper-evident cable ties.

High visibility Seal Tag units enable assignment of a unique electronic identifier to each securely fastened container. To access a sealed container's contents requires severing the cable tie or breaching of the container itself, either incursion providing clear evidence of tampering.

Anti-collision technology enables fast, comprehensive inventories and real-time tracking during distribution and receiving, resulting in faster, more accurate accounting for regulatory reporting or stock planning.

Containers with UHF Seal Tag closures can be identified from up to 26 ft (8 m) , enabling entire loads of sealed containers to be read as trucks pass through stationary readers. HF Seal Tags can be identified and updated with handheld readers and ISO 15693 compatible NFC devices.

Seal Tag RFID tags are waterproof and food compatible. They withstand rugged outdoor use, providing high resistance to aggressive liquids and UV rays, and delivering reliable performance and reading stability at high and sub-freezing temperatures.

Seal Tag units attach anywhere a cable tie can be used and are available in two standard sizes. Thermoplastic elastomer (TPE) housings tolerate repeated bending or torsion, while maintaining excellent performance characteristics. The yellow or white tag color provides excellent contrast for optical identification, and may be laser engraved or embossed with logos, barcodes or text.

## SPECIFICATIONS



### APPLICATION AREAS:

- Asset tracking and logistics
  - Industrial bags, sacks and containers
- Returnable transport items
  - Reusable shipping vessels, cartons and canisters
- Waste management
  - Hazardous waste receptacles



	SlimFlex™ Seal Tag		
	HF	UHF	UHF Mini
<b>Base Model Number</b>	729990-202	798990-202	69899A-202
<b>ELECTRONIC</b>			
<b>Operating Frequency</b>	13.56 MHz	860-960 MHz (Worldwide)	
<b>Chip Type</b>	I-Code SLIx	Higgs 3	
<b>Memory</b>	1024 bit EEPROM	512 bit user memory + 96 bit EPC + 64 bit TID	
<b>Anti-Collision</b>	Yes		
<b>Reading Distance</b> 2 W reader ERP, free space	N/A	Up to 26 ft (8 m)	Up to 16.4 ft (5 m)
<b>PHYSICAL</b>			
<b>Dimensions</b>	Tag: 3.3 × 1.0 × 0.1 in (85 × 25 × 3 mm) Cable tie: 15.0 × 0.3 × 0.1 in (380 × 6 × 2 mm)		Tag: 2.4 × 0.5 × 0.08 in (60 × 12 × 2 mm) Cable tie: 7.8 × 0.1 × 0.05 in (200 × 2.5 × 1.2 mm)
<b>Mounting Method</b>	Integrated cable tie		
<b>Affixes To</b>	Plastic, dry wood		
<b>Housing Material</b>	Tag: TPE Cable tie: Nylon 6.6		
<b>Color</b>	Tag: Yellow (Pantone 108); Cable tie: black		Tag: White Cable tie: Black
<b>Weight</b>	0.42 oz (12 g)		0.08 oz (2.2 g)
<b>CHEMICAL AND MECHANICAL RESISTANCE</b>			
<b>Water</b>	IP68, 68° F (20° C), 6.6 ft (2 m) × 24 h		
<b>Withstands Exposure To</b>	Mineral oil, petroleum, salt mist, vegetable oil, HCL (10%), Bleach (5%); UV light; food compatible		
<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 68.2.29 (40 g, 18 ms, 6 axis, 2000 times)		
<b>Impact</b>	IEC 62262-IK06		
<b>Axial / Radial Force</b>	1000 N, 10 sec		
<b>Cable Tie - Pull Resistance</b>	> 550 N		> 65 N
<b>Tag 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</b>	-40° to +158° F (-40° to +70° C)		
<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, ISO/IEC 18000-3 Mode 1, NFC	UHF EPC Class 1 Gen 2, ISO 18000-6C	
<b>Options</b>	Laser engraving, custom embossed logo, alternate colors		
<b>Box Size</b>	1,000 pcs.		1,500 pcs.
<b>Warranty</b>	2 Years		



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