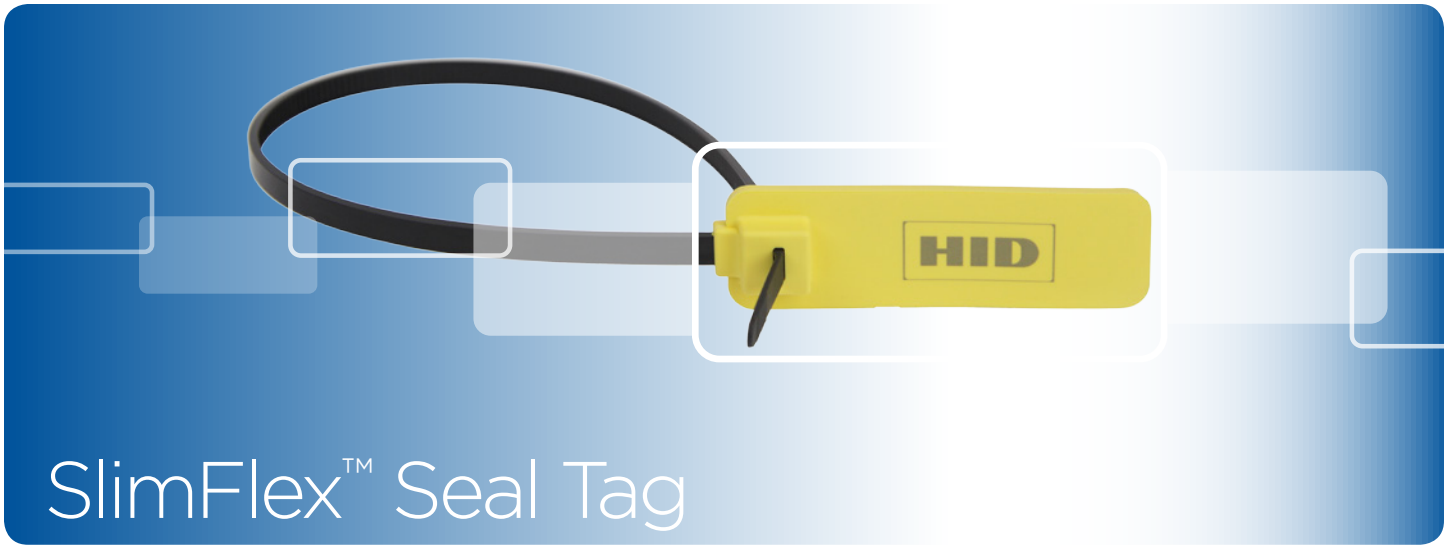
INDUSTRY AND LOGISTICS



SlimFlex™ Seal Tag

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. Thermoplastic elastomer (TPE) housings tolerate repeated bending or torsion, while maintaining excellent performance characteristics. The yellow 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**
Base Model Number	729990-202	798990-202
ELECTRONIC		
Operating Frequency	13.56 MHz	860-960 MHz (Worldwide)
Chip Type	I-Code SLIx	Higgs 3
Memory	1024 bit EEPROM	512 bit user memory + 96 bit EPC + 64 bit TID
Anti-Collision	Yes	
Reading Distance 2 W reader ERP, free space	N/A	Up to 26 ft (8 m)
PHYSICAL		
Dimensions	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)	
Mounting Method	Integrated cable tie	
Affixes To	Plastic, dry wood	
Housing Material	Tag: TPE Cable tie: Nylon 6.6	
Color	Tag: Yellow (Pantone 108); Cable tie: black	
Weight	0.42 oz (12 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)	
Impact	IEC 62262-IK06	
Axial / Radial Force	1000 N, 10 sec	
Cable Tie - Pull Resistance	> 600 N	
Tag Bending	5.9 in (15 mm) curve radius	
THERMAL		
Storage	-40° to +158° F (-40° to +70° C)	
Operating	-40° to +158° F (-40° to +70° C)	
Shock / Fatigue	-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	
Box Size	1,000 pcs.	
Warranty	2 Years	

hidglobal.com

North America: +1 949 732 2000
Toll Free: 1 800 237 7769
Europe, Middle East, Africa: +49 6123 791 0
Asia Pacific: +852 3160 9800
Latin America: +52 55 5081 1650

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2014-09-22-hid-rfid-il-slimflex-seal-tag-ds-en PLT-01937

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