



# WF- SM- HID-6B5900

Curvatures and Contours • RFID Available • Food & Drugs • Durable Product ID • Custom Printed & Programmed • RFID Product • Chemical & Solvent Resistant • Waterproof

## Technical Data Sheet

## Part: #WF- SM- HID-6B5900

### General Description

#### WF- SM- HID-6B5900 SlimFlex Laundry RFID

- Flexible housing combined with advanced durability characteristics creates ideal tag for commercial laundry and health care asset tracking applications
- Withstands the chemical exposure and high temperatures of repeated commercial washing, drying and pressing cycles, and medical- grade sterilization procedures

HID Global's SlimFlex Laundry tags withstand the chemical exposure and high temperatures of repeated commercial washing, drying and pressing cycles, as well as medical- grade sterilization procedures. The small, thin, flexible white strip- shaped tag can be discreetly sewn into the hem of clothing or linens, unnoticeable to users during everyday operations. With a long read range of up to 8.2 ft. (2.5 m), SlimFlex Laundry tags enable automated sorting, inventory and accounting for commercial cleaners, and improved tracking and infection control processes for health care linens and supplies

SlimFlex Tags with UHF technology enhance the potential for laundry and medical asset tracking and automation systems. The unique thermoplastic elastomer (TPE) used in SlimFlex housings is made from the same materials used to manufacture automobile pipes and hoses with the ability to tolerate repeated bending or torsion, while maintaining excellent performance characteristics.

All SlimFlex tags are waterproof and food compatible; they provide high resistance to aggressive liquids and UV rays; and the tags deliver reliable performance and reading stability in high heat and sub- freezing temperatures. SlimFlex Laundry tags also provide added heat resilience, withstanding up to 428° F (220° C) during ironing.

The HID Global Slimflex™ RFID Laundry tag is among the most advanced general UHF tags. The unique thermoplastics elastomer (TPE) housing mounts securely on rounded or irregular surfaces while still maintaining excellent performance characteristics. The durable housing safeguards embedded electronics, even under harsh conditions.

UHF technology enables anti- collision functionality, fast data- rate communication and password data protection for precise, reliable reading and updating of each tag's 512- bit user memory. SlimFlex™ tags are compliant with EPC global certified UHF Class 1 Gen 2 readers and modules, and have broadband capability for worldwide operations.

### Applications

Curved and Rough Surfaces, Pharmaceuticals, Work in Process Tracking, Tools Tracking, Retail Product Tracking, Oil, Gas, Water Pipelines, Manufacturing, Pedigree Tracking, Food & Drugs, Medical Equipment, Harsh Environments, Asset Marking & Tracking, Container Tagging, High Value Asset Labeling, Utility Labeling, Identification Labeling

### Material Description

TPE

Dimensions:	2.2" x 0.50" x .10" (55 x 12 x 2.3 mm)
Read Range:	Up to 8.2 ft (2.5 m)
Available Colors:	White stocked. Custom available per request. Custom embossed and laser engraving available.
Operating Temperature:	-40°F to 185°F (-40°C to 8 °C)
PEAK Temperature:	248°F (120 °C) . 100 h: 428°F (220 °C) (20 bars, 10 x 10 sec. with thin tissue between iron and tag)
Shock / Fatigue:	-68°F to 320°F (20°C to 160°C) 200 x 5 min with 30 sec transition.
Water Resistance:	Excellent, IP68, 68 F( 20C), 3.3ft (1 m) x 24 h
Solvent Resistance:	Excellent, withstands exposure to mineral oil, petroleum, salt mist, vegetable oil, HCL (10%), Bleach (5%), UV light, food compatible.
Abrasion Resistance:	Fair

Test	Results
Impact:	IEC 62262- IK06
Drop Test:	100 drops 5.9 ft / 1.8 m
Vibration:	IEC 68.2.6 (10g 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
Bending:	500 x 0.39 in (10 mm) radius, 500 each side – 180 twist.

## RFID Performance

Holes	None
Weight:	0.06 oz ( 1.6 g)
Warranty:	2 years
Standards:	UHF EPC Class 1 Gen 2, ISO 180000-6C)
Operating Frequency:	860 – 960 MH z (EU, US, JP)
Chip Type:	- G2IM
Memory:	256 bit EPC + 96 bit TID + 512 bit user memory
Anti- Collision:	Yes

