SlimFlex™ Tag

Pliable RFID tags mount anywhere and endure rugged conditions



Custom color options are available, and tags can be embossed or laser-engraved with a logo or message for branding or enhanced visual identification.

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:

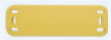
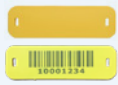
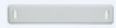
- HF 13.56 MHz version readable with ISO/IEC 15693 compatible NFC devices with tag option for on-metal use.
- Broadband UHF version for worldwide use at 860 to 960 MHz.
- Fully interoperable, standards compliant.
- Bendable, durable housing.
- Waterproof; resistant to chemicals, impact and UV rays.
- 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				
	200	OM (on-metal)	Standard	200	301	Mini	Washer
							
Base Model Number	629990-212 629990-222 (1D barcode)	629990-612 (Yellow)	6M9990-101	6M9990-200 6M9990-220 (1D barcode)	6M9990-300	6M9992-200	6M9990-400
	ELECTRONIC						
Operating Frequency	13.56 MHz		865-928 MHz (Global)				
Chip Type	ICODE SLIX2		M781				
Memory	2560 bit UM		128 bit EPC, 512-bit UM				
Anti-Collision	Yes						
Reading Distance (2W reader ERP, free space)			Up to 26.2 ft (8 m)			Up to 19.7 ft (6 m)	Up to 26.2 ft (8m)
	PHYSICAL						
Dimensions	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 x3 mm)	2.56 x 0.47 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	Cable tie, glue, rivet, screw	Aluminum Rivet
Fixation Hole Size	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)	Ø 0.18 in (4.8 mm)
Affixes To	Flat mount: Plastic, Dry wood Vertical / Flag mount: Any material	Any material (flat mount)	Flat mount: Plastic, Dry wood Vertical / Flag mount: Any material				
Housing Material	TPU						
Color	Yellow (Pantone 108)	Yellow (Pantone 108)	Green	Yellow (Pantone 108)		White	Yellow
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)
	CHEMICAL AND MECHANICAL RESISTANCE						
Water	IP68, 68° F (20° C), 6.6 ft (2 m) x 24 h						
Withstands Exposure To	Water, salt mist, petroleum, UV light, mineral and vegetable oils						
Axial / Radial Force	1000 N, 10 sec						
Impact	IEC 62262-IK06					IEC 62262-IK04	IEC 62262-IK06
Drop Test	100 drops 5.9 ft (1.8 m)						
Bending	5.9 in (150 mm) curve radius						
	THERMAL						
Storage	-40° to +158° F (-40° to +70° C)						
Operating Temperature	-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, 18000-3 Mode 1, NFC Tag Type 5 (if NDEF formatted)		EPC global Gen2v2, EPC Class 1 Gen 2, RAIN, ISO/IEC 18000-63 Compliant				
Options	Laser marking, custom encoding, alternate colors						
Box Size	250 pcs.	160 pcs.	250 pcs.			1,500 pcs.	250 pcs.
Warranty	2 Years						

Supports GEN2X NFC RAIN CE

For more information, contact tagsales@hidglobal.com

HID
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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