



SlimFlex™ Tag



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

PLIABLE UHF RFID TAGS MOUNT TO UNEVEN SURFACES AND DELIVER LONG READ RANGES WHILE ENDURING RUGGED CONDITIONS

- **Flexibility** - Repeated bending will not impede performance; enables secure mounting on rounded or irregular surfaces.
- **High durability** - Resistant to outdoor elements.
- **Enhanced reliability** - Read-write up to 26.3 ft (8 m) when mounted to plastic or wood.
- **Broadband UHF** - Usable worldwide, including Europe, the United States and Japan.

HID Global SlimFlex™ RFID tags are among the most advanced general purpose UHF tags available. The unique thermoplastic elastomer (TPE) housings 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. The tags' flexible housings conform to surface contours, and can be securely attached with industrial adhesives or screwed into place via pre-drilled holes.

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.

SlimFlex tags enable fast and accurate data read and write capabilities when mounted to any wood or plastic asset, such as containers, pallets, helmets, apparel, tools or even trees.

The tags are available in two configurations. The standard version enables read ranges up to 19 ft (6 m), and attaches snugly to rounded or irregular surfaces. The SlimFlex Square configuration delivers read ranges of up to 26 ft (8 m) in dry conditions when mounted to any non-metal surface and in wet conditions when mounted vertically to a flat surface or extended from a corner.

Both SlimFlex RFID tags are waterproof, provide high resistance to aggressive liquids, and deliver reliable performance and reading stability across fluctuating temperatures.

TECHNOLOGY HIGHLIGHTS:

- Worldwide operating frequencies from 860 to 960 MHz.
- Fully interoperable, standards compliant.
- Bendable TPE housing.
- Waterproof, chemical and impact resistant.
- Fixation options include nails, screws, and glues.
- Large memory: 512-bit user memory plus 96-bit EPC, and 64-bit TID.

APPLICATION AREAS:

■ Asset tracking and logistics

- Supply chain management: pallet and goods tracking.
- Safety equipment tagging: helmets, boots etc.
- Cylindrical item identification: tagging of plastic pipes, trees (e.g. in nurseries or for research).

■ Returnable transport items

- Shipping container or pallet tracking.

■ Waste management

- Commercial and industrial plastic bin identification



SPECIFICATIONS

| | SlimFlex™ Tag | |
|--|---|--|
| | Standard | Square |
| Base Model Number | 798990 | 698991 |
| ELECTRONIC | | |
| Operating Frequency | 860-960 MHz (EU, US, JP) | |
| Chip Type | Higgs 3 | |
| Memory | 96 bit EPC + 64 bit TID + 512 bit user memory | |
| Anti-Collision | Yes | |
| Reading Distance (2W reader ERP, free space) | Up to 19.7 ft (6 m) | Up to 26.3 ft (8 m) |
| PHYSICAL | | |
| Dimensions | 3.0 × 0.6 × 0.12 in (77 × 25 × 3 mm) | 4.5 × 3.3 × 0.12 in (115 × 85 × 3 mm) |
| Mounting Method | Glue or screw | |
| Fixation Hole Size | Ø 0.12 in (3 mm) | Ø 0.16 in (4 mm) |
| Affixes To | Plastic, dry wood | |
| Housing Material | TPE | |
| Color | Green | Yellow |
| Weight | 0.21 oz (6 g) | 0.9 oz (25 g) |
| CHEMICAL AND MECHANICAL RESISTANCE | | |
| Water | IP68, 68° F (20° C), 3.3 ft (1 m) x 24 h | |
| Withstands Exposure To | Mineral oil, petroleum, salt mist, vegetable oil | |
| 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] | |
| Axial / Radial Force | 1000 N, 10 sec | |
| Bending | 5.9 in (150 mm) curve radius | 3000 times when vertically mounted |
| THERMAL | | |
| Storage | -40° to +158° F (-40° to +70° C) | |
| Operating Temperature | -40° to +158° F (-40° to +70° C) | |
| Shock/Fatigue | -40° to +194° F (-40° to +90° C) , 100 x 5 min with 30 sec transition | |
| OTHER | | |
| Standards | UHF EPC Class 1 Gen 2, ISO 18000-6C | |
| Options | Custom embossed logo, alternate colors | Custom embossed logo, laser engraving |
| Warranty | 2 Years | |

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