

RFID Tamper Evident Cable Seal

一、Shape and structure

1) Shape material:

Antenna: Aluminum foil etching.

Tag: chip +ABS+copper core.

2) Wire rope label size: 62*27.5mm, Wire length: 260mm.

3) Initialization: The delivered label products provide initial data writing according to the requirements of Party A.

4) Printing: The delivered label products provide printing services according to the requirements of Party A. They can print and scan QR codes, which are clear and wear-resistant.

二、Electronic label electrical performance

1) characteristic: Anti-metal UHF electronic tag

2) working frequency: 902-928MHz, 865-868MHz

3) Operating mode: Passive

4) special function: The label has two states: locked state and unlocked state.

Status bit: 8040 is the locked state; 0040

is the unlocked state.

5) Reading distance: 0-7m (Matching antenna power: 12dB. Depends on working environment)

6) Tag data: ID, TID number and status bit can be read at the same time

7) Read and write times: > 100000 times

8) Service life: > 10years

三、Physical properties

1) Operating temperature: -20°C~+60°C

2) Storage temperature: -25°C~+85°C Relative humidity: 5%~95%

3) Metal resistance: the label is suitable for metal surface equipment

4) Pull: $F \geq 3000N$

5) Industrial grade IP65 or above.

四、Communication protocol

The communication protocol of the electronic tag complies with

《EPC™Radio-Frequency Identity Protocols Class-1 Generation-2

UHF RFID Protocol for Communications at 860 MHz – 960 MHz》

(Abbreviation EPC GEN2) ISO180000-6C、18000-6C(63) ISO/IEC18000-6D(64)

Communication standard.

五、Factors affecting label life or performance

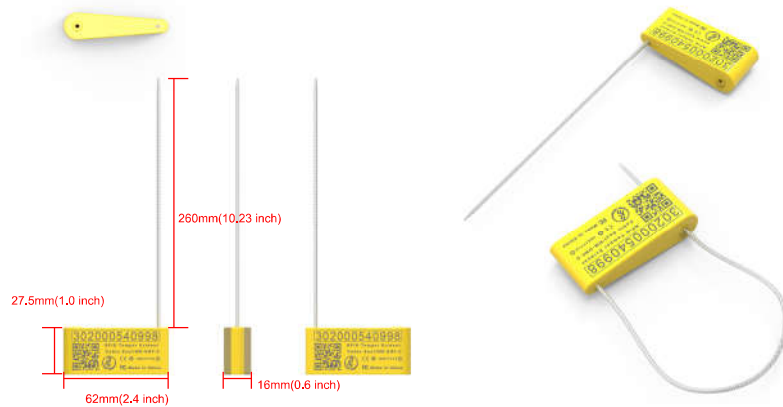
1) Strong collision, bending, and breaking will cause damage to the structure of the internal antenna and affect the reading performance of the tag;

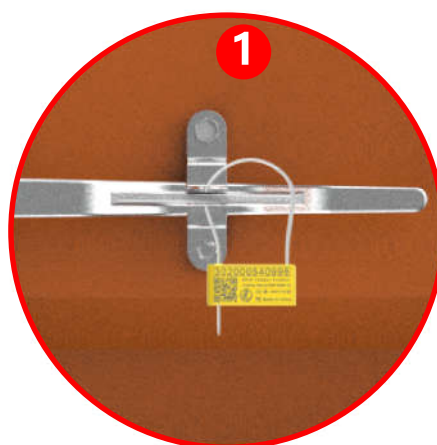
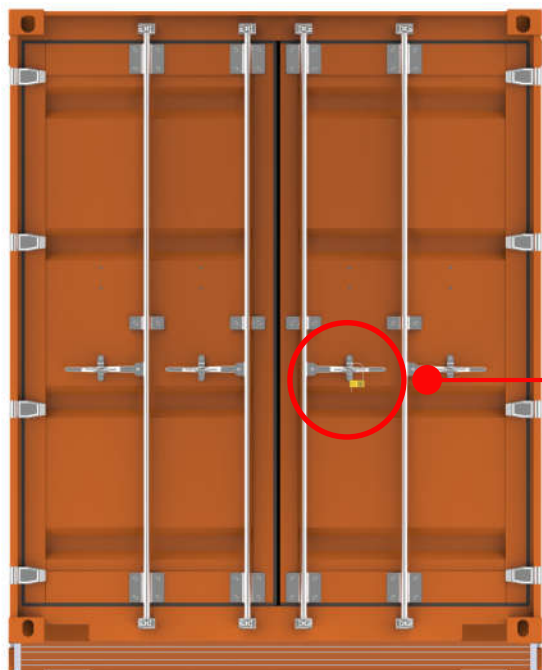
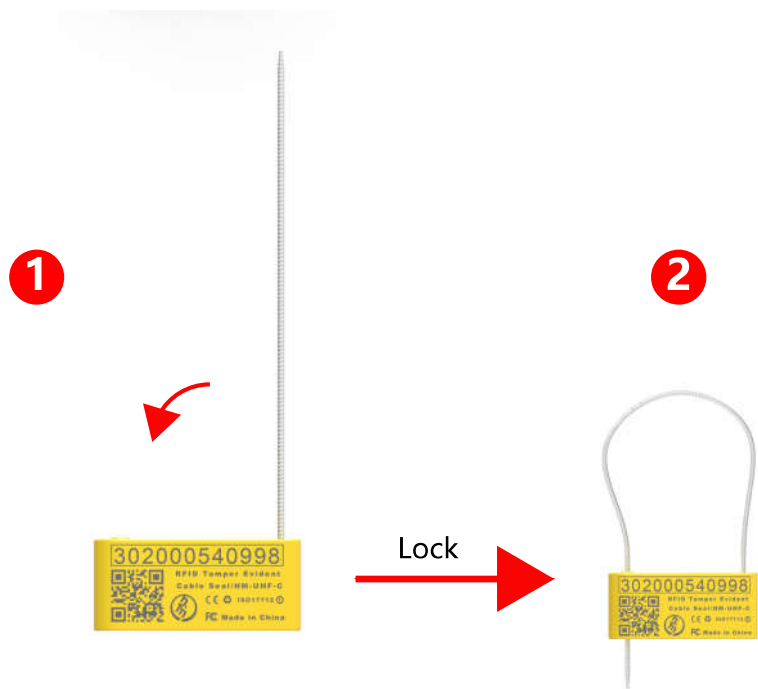
2) Exposure to sunlight can easily cause aging of label surface materials;

3) Metal labels attached to non-metallic surfaces, or metal labels attached to metal surfaces may affect label performance;

4) There is water or high humidity on the surface, which will attract electromagnetic waves and degrade the performance of the label;

5) When there are many metal environments around the label, signal reflection occurs, and the direction of the signal cannot be controlled, which may cause misreading.





2 Cut



FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant

to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.