

PRODUCT DATASHEET

Confidex Steelwave HF™



ELECTRICAL SPECIFICATION

Device type

NTAG213: NFC Forum Type 2

SLIX2: NFC Forum Type 5

Air interface protocol

NTAG213: ISO/IEC 14443A

SLIX2: ISO/IEC 15693

Operational frequency

13,56 MHz

IC type

NXP NTAG213

NXP ICODE SLIX2

Memory configuration

With NTAG213: User memory 144 bytes

With SLIX2: User memory 2528 bits

Read range*

With NTAG213:

Mobile phone up to 1.5cm

Fixed reader up to 3cm

With SLIX2:

Mobile phone up to 2.5cm

Fixed reader up to 16cm

Applicable surface materials*

Metal

* Read ranges are measured in laboratory environment and there can be some variation in real application. Also used surface material and IC type might affect the read range.

MECHANICAL SPECIFICATION

Tag materials

Printable white PET, resin ribbon recommended.

Background adhesive

High tack adhesive with excellent adhesion to all surfaces including low surface energy plastics and painted metal

Weight

< 1 g

Delivery format

500 pcs / reel

Pitch on reel

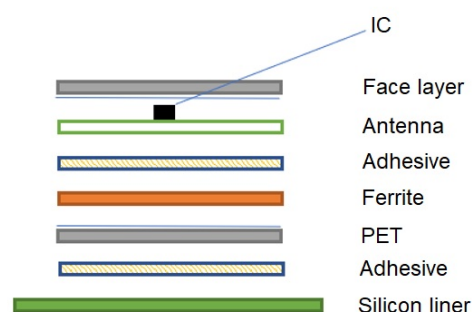
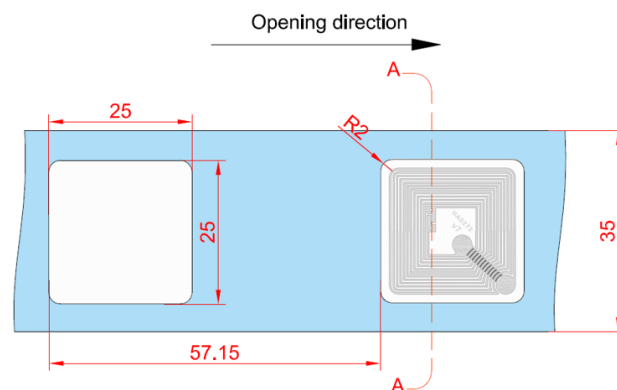
57,15 mm / 2.25 in

Reel core inner diameter

76 mm / 3"

Tag dimensions

25 x 25 x 0,46 mm / 0.98 x 0.98 x 0.018 in



ENVIRONMENTAL RESISTANCE

Operating temperature

-35°C to +85°C / -31°F to +185°F

Ambient temperature

-35°C to +90°C / -31°F to +194°F

Water resistance

Good, tested 5 hours in 1m deep water (IP68)

Chemical resistance

No physical or performance changes in:

- 168h Salt water (salinity 10%) exposure
- 168h Motor oil exposure
- 24h Sulfuric acid (10%, pH 2) exposure
- 24h NaOH (10%, pH 13) exposure
- 20min acetone exposure

Storage condition

1 year in +20°C / 50% RH (shelf life for adhesive)

Expected lifetime

Years in normal operating conditions

Values in the table are the best recommendations; resistance against environmental conditions depends on the combination of all influencing factors, exposure duration and chemical concentrations. Thus, product's final suitability for certain environmental conditions is recommended to be tested. Contact Confidex for more specific information.

PERSONALIZATION OPTIONS

Pre-encoding

- Customer-specific encoding

Visual marking

- Variable printing of customer-specific content (such as QR-code, barcode, serial number)
- Color artwork, branding

INSTALLATION INSTRUCTIONS

Ideal installation conditions are +20°C (+68°F) / 50% RH. For exceptional conditions, please contact Confidex. Bond strength can be improved with firm application pressure. Always ensure clean surface for obtaining the maximum bond strength.

During attachment to the identified item, please avoid touching the background adhesive. If the location on the asset needs to be changed, please use a new tag instead of re-placing the used one; the adhesion will suffer from the re-placement.

Minimum bending diameter of the Confidex Steelwave HF™ is defined to be 50mm. Do not bend the label above the limit. Never touch on the location of the IC. IC is a sensitive electrical component and can be damaged if unexpected pressure is applied on it.

ORDER INFORMATION

Product number: 3003272

Product name: Confidex Steelwave HF™ NTAG213

Product number: 3003273

Product name: Confidex Steelwave HF™ SLIX2

For additional information and technical, and other product versions, contact Confidex Ltd.

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