

# PRODUCT DATASHEET

## Confidex Links NFC™ On-metal



Modular NFC on-metal label for high volume applications to any surface material.

### ELECTRICAL SPECIFICATION

#### Device type

NFC Forum Type 2

#### Air interface protocol

ISO/IEC 14443A

#### Operational frequency

13,56 MHz

#### IC type

NXP NTAG213

Option: NXP NTAG216

Option: NXP NTAG210μ

#### Memory configuration

NTAG213: User memory 144 Bytes

Option: NTAG216: User memory 888 Bytes

Option: NTAG210μ: User memory 48 Bytes

#### Read range (with NTAG213)\*

Mobile phone up to 15 mm

Fixed reader up to 20 mm

#### Applicable surface materials\*

Any surface, including 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 synthetic face layer, resin ribbon recommended.

#### Background adhesive

Permanent adhesive for general purpose use.

#### Weight

< 1 g

#### Delivery format

1000 pcs / reel

#### Pitch on reel

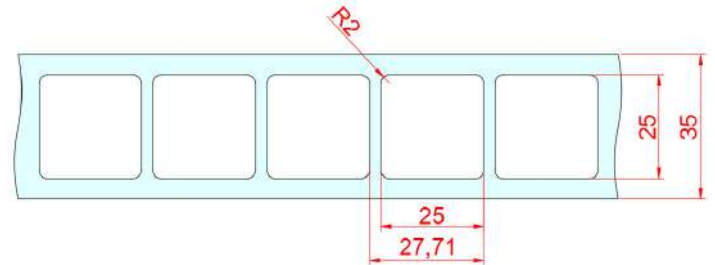
27,71 mm / 1.091 in

#### Reel core inner diameter

76 mm / 3"

#### Tag dimensions

25 x 25 x 0,45 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 +85°C / -31°F to +185°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
- 24h Sulfuric acid (10%, pH 2) exposure
- 168h Motor oil exposure
- 24h NaOH (10%, pH 13) exposure
- 2h 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 NDEF encoding

#### Visual marking

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

Please note, that custom printing may impact the product pitch on reel depending on the artwork type.

## 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 Links™ on-metal is defined to be 50mm. Do not bend the label above the limit. Never touch on the location of the IC. IC chip is sensitive electrical component and can be damaged if unexpected pressure is applied on the chip.

## ORDER INFORMATION

**Product number:** 3001957

**Product name:** Confidex Links™ NTAG213 on-metal

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

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