

PRODUCT DATASHEET

Confidex Paper Reel Label™



Label tuned for high dielectrics and designed specifically for paper reel core tagging.

ELECTRICAL SPECIFICATION

Device type

UHF RFID / EPCglobal Gen2v2

Operational frequency

Global 865-928MHz

IC type

Impinj® M730

Memory configuration

EPC 128bit; TID 96 bit

EPC memory content

Unique random 96bit EPC in every label

Read range (2W ERP)*

Free air: Up to 10m / 33 ft

On plastic: up to 22 m / 72 ft

Paper reel: up to 10m / 33 ft*

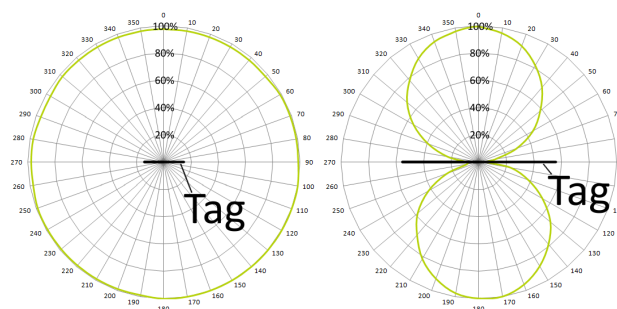
Applicable surface materials**

Plastic, wood, glass, works also on paper reel core.

* Read range on paper reel is highly dependent on the type and amount of paper used.

** Read ranges are theoretical values that are calculated for non-reflective environment, in where antennas with optimum directivity are used with maximum allowed operating power according to ETSI EN 302 208 (2W ERP). Different surface materials may influence performance.

RADIATION PATTERNS



MECHANICAL SPECIFICATION

Tag materials

Printable white PET, resin ribbon is recommended

Background adhesive

Permanent adhesive for general purpose use

Weight

< 1 g

Delivery format

2000 pcs on reel

Pitch on reel

20,32 mm / 0.8"

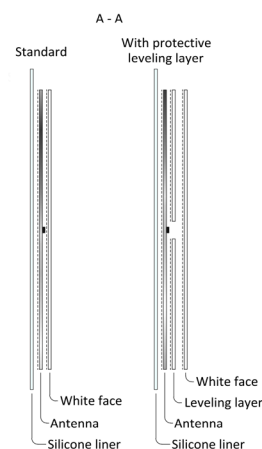
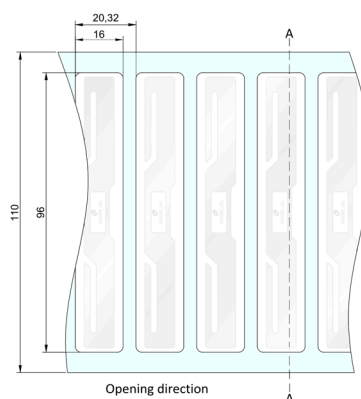
Reel core inner diameter

76 mm / 3"

Tag dimensions

For 3003495: 96 x 16 x 0.2 mm / 3.78 x 0.63 x 0.01 in

For 3004032: 96 x 16 x 0.34 mm / 3.78 x 0.63 x 0.013 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

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

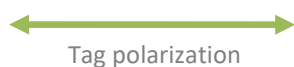
Pre-encoding

- Customer-specific encoding of EPC memory. Locking permanently or with password.

Customized printing

- Customer-specific layout including logo, text, numbers, barcodes etc.

INSTALLATION INSTRUCTIONS



Ideal installation conditions are +20°C (+68°F) / 50% RH. For exceptional conditions, please contact Confidex. Adhesive of the label will provide best adhesion in 24 hours after the installation. Bond strength can be improved with firm application pressure. Always clean and dry the surface for obtaining the maximum bond strength. Avoid touching the background adhesive.

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

ORDER INFORMATION

Product number: 3003945

Product name: Confidex Paper Reel Label™ M730

Product number: 3004032

Product name: Confidex Paper Reel Label Protected™ M730, With leveling layer

For additional information and technical support contact Confidex Ltd.

DISCLAIMER

THE MATERIALS, PRODUCTS AND SERVICES ARE SOLD SUBJECT TO ITS STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, CONFIDEX MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN CONFIDEX STANDARD CONDITIONS OF SALE, CONFIDEX AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN.

Each user bears full responsibility for making its own determination as to the suitability of Confidex products, materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished systems incorporating Confidex products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Confidex.