

PRODUCT DATASHEET

Confidex Silverline™



Versatile all-surface RFID label with industry leading printing capabilities and proven durability

ELECTRICAL SPECIFICATIONS

Device type

Class 1 Generation 2 passive UHF RFID transponder

Air interface protocol

EPCGlobal Class1 Gen2 ISO 18000-6C

Operational frequency

ETSI 865 – 869 MHz

IC type

Impinj Monza 4QT™

Memory configuration

With Monza 4QT: EPC 128 bit; User 512 bit; TID 96 bit

EPC memory content

Same EPC in every label as a default

Read range (2W ERP)*

On metal up to 5 m

On Plastic up to 4 m

Liquid containers up to 2 m

Applicable surface materials*

All surfaces

Attachment on curved surface

Label can be attached on a curved surface in any orientation. For optimal performance, the following orientation is recommended.



* Read ranges are theoretical values that are calculated for non-reflective environment. Different surface materials may have an effect on performance.

MECHANICAL SPECIFICATIONS

Label surface

Printable white PET, Zebra 5095 resin ribbon recommended

Background adhesive

High performance acrylic adhesive optimised for metal and painted metal surfaces

Weight

2 g

Delivery format

500 pcs good labels on reel, bad ones marked with "XXX" printing. Typical yield >99%

Pitch on reel

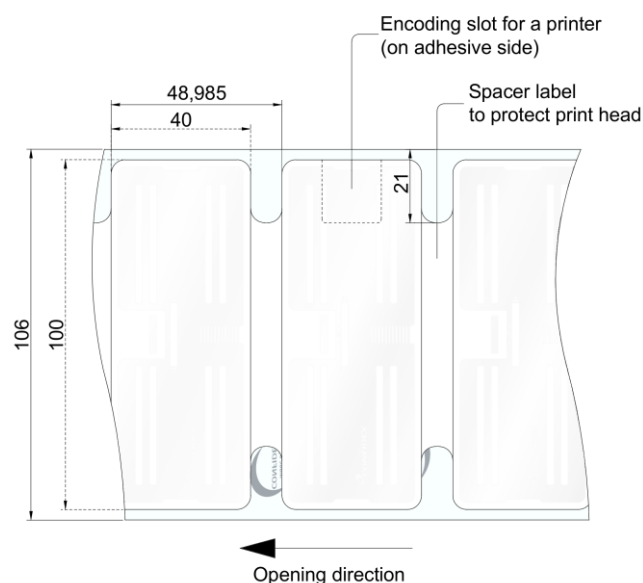
48,985 mm

Reel core inner diameter

76 mm

Tag dimensions

100 x 40 x 0,8 mm



ENVIRONMENTAL RESISTANCE

Operating temperature

-35°C to +85°C

Ambient temperature

-35°C to +85°C

Water resistance

IP68, tested for 65 hours in 1m deep water

Washing resistance

Tolerates industrial washing with standard solvents.

Washing process should be tested in final application.

Chemical resistance

No physical or performance changes in:

- 168h Sulfuric acid (10%, pH 2) exposure
- 168h Motor oil exposure
- 168h Salt water (salinity 10%) exposure
- 1h NaOH (10%, pH 13) exposure

Acetone should be avoided

Storage condition

1 year in +20°C / 50% RH

Environmental values are the best recommendations; resistance against different 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.

INSTALLATION INSTRUCTIONS

When attaching the label, ensure the following:

- Select a smooth surface without uneven areas below tag
- Avoid touching the background adhesive and IC location

When mounting the label with its adhesive, clean and dry the surface for obtaining the maximum bond strength. Typical cleaning solvents are heptane for oily surfaces or isopropyl alcohol for plastics. Do not use household cleaning solvents that contain oils. Carefully read and follow the manufacturer's precautions and directions for use when working with solvents.

Ideal application temperature is from +16°C to +38°C. Bond strength can be improved with firm application pressure and moderate heating from +38°C to +54°C. Application at temperatures below 10°C (50°F) is not recommended. If application is done at temperatures below 10°C surface must be extremely clean, dry and it has to be warmed before attaching the tag to achieve best possible adhesion. Keep the tags warm (above 10°C) before attaching.

Minimum bending diameter of the Confidex Silverline™ is 50mm. Do not bend the label above the limit.

PRINTER COMPATIBILITY

The Confidex Silverline family is designed and verified to work with **Custom Zebra ZT410 RFID Silverline** printer. Other Zebra printers are not recommended or supported. Contact your Authorized Zebra Reseller for ordering information.

Set-up instructions and printer configurations specifically for Silverline tags and the Custom ZT410 RFID Silverline printer is available on Zebra.com or by contacting Zebra Technical Support.

ORDERING INFORMATION**Zebra part number:** 10025343**Product name:** Confidex Silverline™ M4QT ETSI

For additional information and technical support, please contact your Authorized Zebra Reseller or Zebra Technical Support.

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