

# PRODUCT DATASHEET

## Confidex Silverline Blade II+™



On Metal RFID label with global reading and high memory IC for industrial applications

### ELECTRICAL SPECIFICATION

#### Device type

RAIN RFD / EPCglobal Gen2v2

#### Air interface protocol

EPCglobal Class1 Gen2 ISO 18000-6C

#### Operational frequency

Global: 865 - 928 MHz

#### IC options and memory configurations

Impinj M780™

- EPC 496 bit; User 128 bit; TID 96 bit

#### EPC memory content

Unique random 96bit EPC in every label

#### Read range (2W ERP)\*

On metal up to 7 m / 23 ft

On plastic up to 3 m / 10 ft

On liquid up to 5 m / 16 ft

#### Applicable surface materials\*

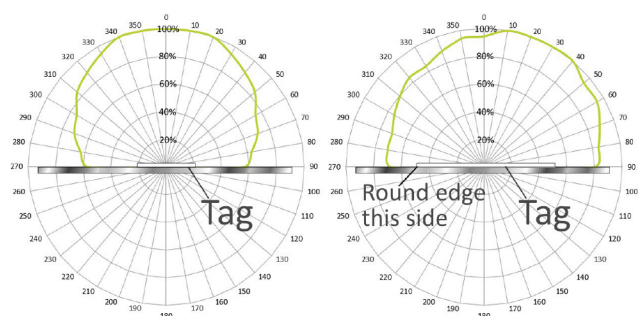
Optimized for metal but works on any surface

#### Attachment on curved surface

Label can be attached on a curved surface. Check installation instructions for more details.

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

### RADIATION PATTERNS



### MECHANICAL SPECIFICATION

#### Label surface

Printable white PET, Zebra 5095 resin ribbon recommended.

#### Background adhesive

High tack adhesive with excellent adhesion to all surfaces including low surface energy plastics.

#### Weight

0,9 g

#### Delivery format

400 pcs good labels on reel, bad ones marked with "XXX" printing. Typical yield >95%.

#### Pitch on reel

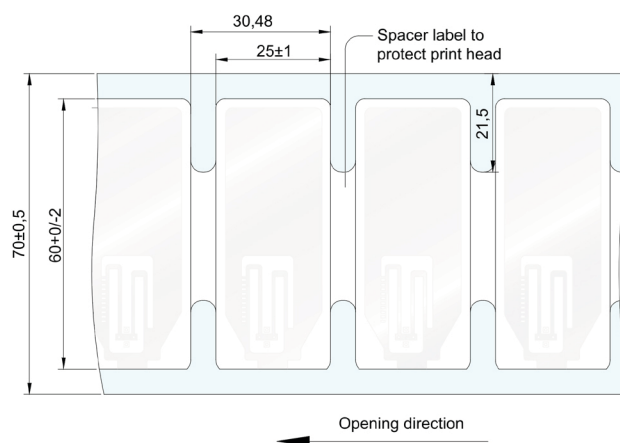
30,48 mm / 1.2"

#### Reel core inner diameter

76 mm / 3"

#### Tag dimensions

60 x 25 x 1.4 mm / 2.36 x 0.98 x 0.055"



### ENVIRONMENTAL RESISTANCE

#### Operating temperature

-35°C to +85°C / -31°F to +185°F

#### Peak temperature

+140°C / 284°F for 10min

#### Ambient temperature

-35°C to +85°C / -31°F to +185°F

#### Water resistance

IP68, tested for 5 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
- 2h NaOH (10%, pH 13) exposure

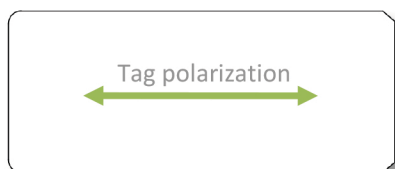
Acetone should be avoided

#### 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



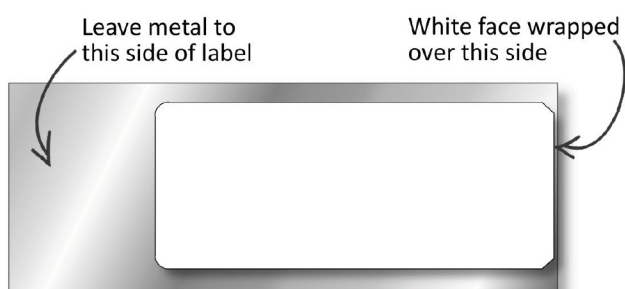
When attaching the label ensure the following

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

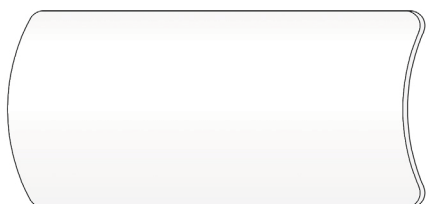
When mounting the label with its adhesive, clean and dry the surface for obtaining the maximum bond strength. Typical cleaning solvents are heptane or acetone for oily surfaces or isopropyl alcohol for plastics. Do not use household cleaning solvents that contain oils. Carefully read and follow the manufacturer's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

Ideal application temperature is from +21°C to +38°C (+70°F to +100°F). Bond strength can be improved with firm application pressure and moderate heating up to +54°C (+130°F). Application at temperatures below 10°C (50°F) is not recommended. Adhesive of Confidex Silverline Blade II+™ is having very high initial tack, meaning that it adheres in seconds and reaches close to final bonding strength in minutes. Adhesive is also suitable for other than metallic surfaces.

Optimal read range is achieved when is metal on the non-wrapped side of the label, like shown in the below picture.



Smallest recommended bending diameter of the Confidex Silverline Blade II+™ is 100mm. For optimal performance please bend the label in the orientation shown below.



## PRINTER COMPATIBILITY

The Confidex Silverline family is designed and verified to work with the **Custom Zebra ZT410 RFID Silverline and ZT411 On Metal** printers. 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 compliant printers are available on [Zebra.com](http://Zebra.com) or by contacting Zebra Technical Support.

## ORDER INFORMATION

**Zebra part number:** 10039973

**Product name:** Confidex Silverline Blade II+™ M780 Global

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