

# PRODUCT DATASHEET

## Confidex Silverline Blade™



Global on metal label with extreme performance.

### ELECTRICAL SPECIFICATION

#### Device type

Class 1 Generation 2 passive UHF RFID transponder

#### Air interface protocol

EPCGlobal Class1 Gen2 ISO 18000-6C

#### Operational frequency

Global 865 – 928 MHz

#### IC type

Impinj Monza R6™

#### Memory configuration

EPC 96 bit; TID 96 bit with 48 bit serial number

#### EPC memory content

Unique number encoded as a default

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

On metal up to 4,5 m / 15 ft

On Plastic up to 1,5 m / 5 ft

Liquid containers up to 3 m / 10 ft

#### Applicable surface materials\*

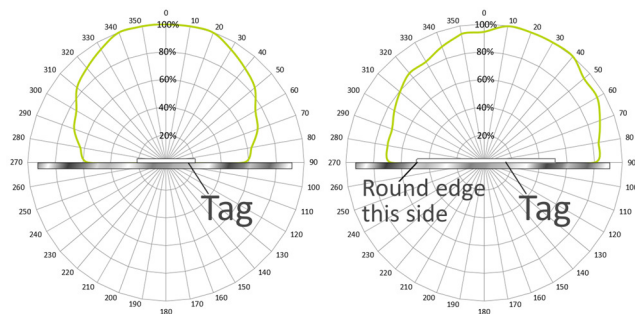
All surfaces, optimized for metal

#### 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

White specially coated PP with good printability. Zebra 5095 resin ribbon recommended.

#### Background adhesive

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

#### Weight

0,6 g

#### Delivery format

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

#### Pitch on reel

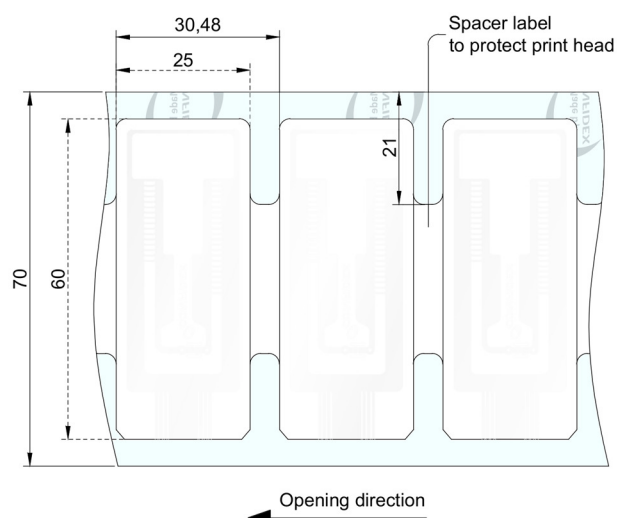
30,48 mm / 1.2"

#### Reel core inner diameter

76 mm / 3"

#### Tag dimensions

60 x 25 x 1.2 mm / 2.36 x 0.98 x 0.047"



### ENVIRONMENTAL RESISTANCE

#### Operating temperature

-35°C to +85°C / -31°F to +185°F

#### Peak temperature

+110°C / 230°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
- 30min NaOH (10%, pH 13) exposure

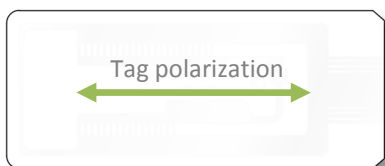
Acetone should be avoided

#### 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



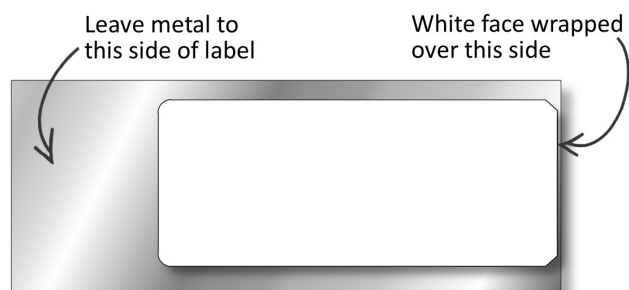
When attaching the label ensure the following

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

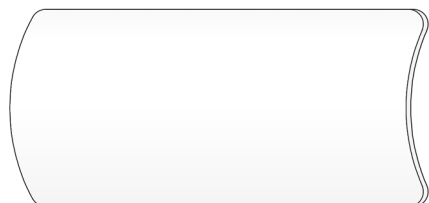
When mounting the label with its adhesive, clean and dry the surface for obtaining the maximum bond strength. Typical cleaning solvents are heptane or acetone for oily surfaces or isopropyl alcohol for plastics. Do not use household cleaning solvents that contain oils. Carefully read and follow the manufacturer's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

Optimal read range is achieved when label is attached close to the edge of metal asset, like shown in below picture.



Smallest recommended bending diameter of the Confidex Silverline Blade™ 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** 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.

## ORDER INFORMATION

**Zebra part number:** 10028598

**Product name:** Confidex Silverline Blade™ MR6

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

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