



## Description

On Metal RFID label with exceptional performance combined with high tack adhesive for challenging surfaces



## 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  
FCC: 902 - 928 MHz

### IC type

Impinj® M730

### Memory configuration

EPC 128 bit; TID 96 bit

### EPC memory content

Unique random 96bit EPC in every label

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

ETSI and FCC  
On metal up to 10 m / 33 ft  
On plastic up to 5 m / 16 ft  
On liquid up to 4 m / 13 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 instruction for more details.

\* 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 adhesiv

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

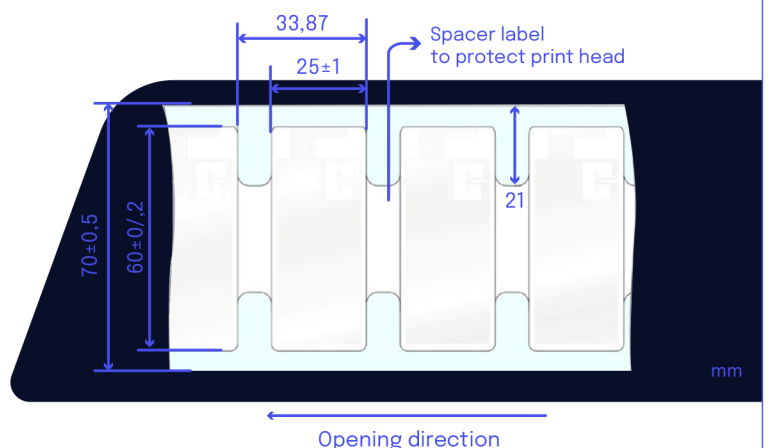
33,87 mm / 1.33"

### Reel core inner diameter

76 mm / 3"

### Tag dimensions

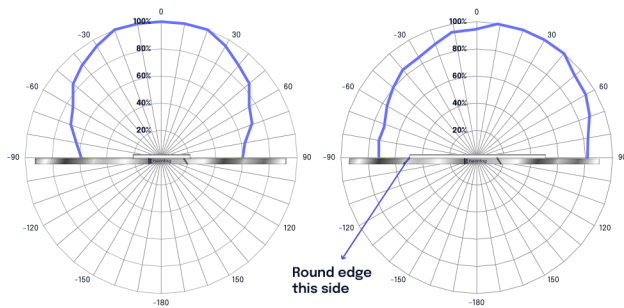
60 x 25 x 1.4 mm / 2.36 x 0.98 x 0.055"





## Radiation pattern

Below radiation pattern is measured on metal. Pattern may be affected by the shape of the tagged item.



## Printer Compatibility

The **Beontag 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.



## 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
- 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.

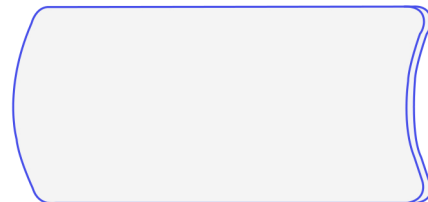
Ideal application temperature is from +21°C to +38°C (+70°F to +100°F). Bond strength can be improved with firm application pressure and moderate heating up to +54°C (+130°F). Application at temperatures below 10°C (50°F) is not recommended.

Adhesive of **Beontag 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 nonwrapped side of the label, like shown in the below picture.



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



**Order information**

Zebra part number: **10026767**  
 Product name: **Beontag Silverline Blade II M730 ETSI**

Zebra part number: **10026768**  
 Product name: **Beontag Silverline Blade II M730 FCC**

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

**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, BEONTAG 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 BEONTAG STANDARD CONDITIONS OF SALE, BEONTAG 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 Beontag 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 Beontag 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 Beontag.

**About Beontag**

From the science of graphic and label materials, RFID and wireless IoT enablers, we create solutions across the value chain to deliver digital transformation for businesses around the world.

Sustainability is at the core of what we do and we strongly believe that by substituting non-renewable materials and innovating through more sustainable and renewable products, we act as an ESG enabler for our customers' value chain.

Beontag is one of the world's leading providers of RFID and wireless IoT solutions, being present in more than 40 countries with 7 R&D centers and 2,000 employees, in constant development of technological and sustainable solutions designed to connect items, and gain efficiency and end-to-end traceability

The performance of the product should always be tested in the actual application conditions. Our recommendations are based on our most current knowledge and experience and the pictures and illustrations presented in this document are for illustration purposes only. As our products are used in conditions beyond our control, we cannot assume any liability for damage caused through their use. Beontag reserves the right to change its products and services at any time without notice.



©Beontag



atlasRFIDstore

(205) 383-2244

sales@atlasRFIDstore.com

www.atlasRFIDstore.com