



Silverline Blade II™

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



Electrical Specification

- **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 instructions for more details.

*Read ranges are theoretical values that are calculated for non-reflective environment. Different surface materials may influence performance.

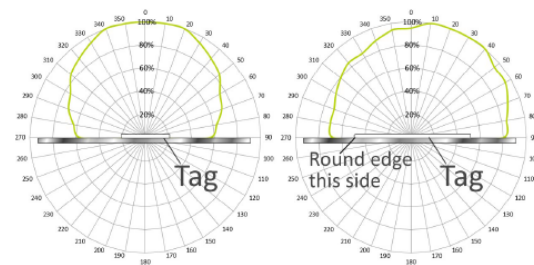
Mechanical Specification

- **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

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.

- **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 Patterns



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
- **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

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.

Printer Compatibility

The 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 or by contacting Zebra Technical Support.

Order Information

- **Zebra part number:** 10026767
- **Product name:** Silverline Blade IITM M730 ETSI
- **Zebra part number:** 10026768
- **Product name:** Silverline Blade II™ M730 FCC

Industry Compliance



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, ZEBRA 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 ZEBRA STANDARD CONDITIONS OF SALE, ZEBRA 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 Zebra 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 Zebra 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 Zebra.

Need more information?

For more information and support, please visit: www.zebra.com/rfidlabels