

# CMX-DET Product Bulletin

## Metal detectable material for food beverage and pharma industries

### BULLETIN DETECTABLE COMPOUND

Revision Number. 1.2  
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#### Introduction

Ensuring precise and resilient cable marking is crucial for maintaining safety, efficiency, and compliance within various industrial settings. This bulletin specifically addresses the best practices for marking cables using detectable polyurethane (PUR) material, with detailed recommendations for printer selection and operational guidelines.

#### Choosing the Right Printer for Detectable PUR Material

When marking detectable PUR material, it is essential to select a printer that is specifically capable of handling the unique characteristics of this material. Detectable PUR requires a printer that can accommodate its thickness and flexibility without compromising print quality or durability.

#### Specific Recommendations for CAB EOS Series

For optimal results with detectable PUR materials using CAB EOS 2 and EOS 5 printers, we recommend implementing extra springs to ensure correct bonding between the print head and the material. This adjustment is crucial for maintaining high print accuracy and quality. For a visual demonstration of this setup, please follow the instruction on page 2 or the QR link to instructional video.

#### Minimum Printing Temperature

The flexibility and unique properties of detectable PUR material require careful temperature management. It is critical to ensure that both the printer and the material are preconditioned to a minimum temperature of 18°C (64.4°F) prior to printing. This step is essential for achieving proper adhesion, clear, durable markings, and accommodating the material's flexibility to ensure optimal printing performance.

#### Consultation for Other Printer Models.

Given the specific demands of detectable PUR material, we advise consulting with Link Solutions for guidance on choosing the best printer model. Link Solutions specializes in providing tailored recommendations to ensure that your printer setup is fully compatible with detectable PUR materials, maximizing performance and reliability.

#### Appropriate Ribbon Selection.

For the best print quality and durability of markings on detectable PUR material, selecting the right ribbon is crucial. The FTI-HX ribbon is highly recommended as it ensures good printed image quality and mark permanence on the actual material. This ribbon is specifically designed to cope with the environmental and physical stresses that detectable PUR may encounter, ensuring long-lasting adhesion and clarity.

#### Summary

For cable marking using detectable PUR material, it is crucial to use a printer setup that accommodates the material's properties, such as the CAB EOS series with necessary modifications like extra springs. Consulting with Link Solutions is recommended for selecting other printer models that meet the specific requirements of detectable PUR. Using the FTI-HX ribbon is essential for ensuring high-quality, durable markings. Proper ribbon selection and adherence to the minimum printing temperature are vital to achieve optimal results for resistance against harsh chemical cleaning used in the food and beverage industry.

For further assistance or to discuss your specific requirements for cable marking with detectable PUR material, please contact our product support team.

## Industry



Industry



Marine



Wind power



Commercial



Aerospace



Construction



Railway



Military



Electrical installations



Petrochemical



Telecom



Food Industry

### STANDARD COLOR



RAL 5012 -

### MATERIAL

Polyether based PUR.

### STANDARDS

**FDA "Food & Drug" 21 CFR - GRAS**

"generally accepted as safe"

**Regulation (EU) No 10/2011**

Plastics intended to come into contact with food.

**AP 89 1 - European Resolution**  
Pigments used for coloration

### APPLICATIONS

Developed to be used in Food Industry and other Industries requiring detection through metal detectors, metal separation magnet systems and X-ray equipment.

Recommended Printer  
CAB A4+M - SQUIX 4.3 MP

Recommended Ribbon  
FTI-HX black

Optional Printer  
CAB EOS 2 - CAB EOS 5 with optional spring printer kit.

Minimum Printing temperature  
18°C (64.4°F)

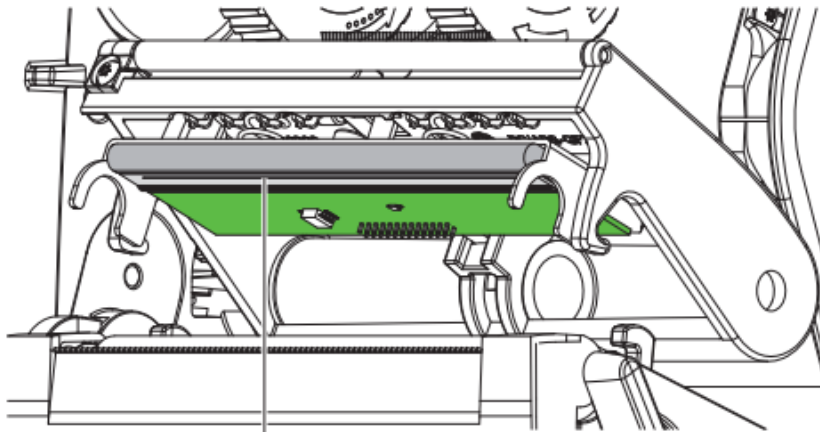
The CAB EOS 2 and CAB EOS 5 **MUST** be used in conjunction with additional springs mounted as shown on page 2



## Ordering Info Printer kit EOS 2 / EOS 5

### PART NUMBER

PART NUMBER	DESCRIPTION	QTY
5906104.001	Spring	2 PCS



1 Printhead

Springs



Instructional  
Video

