5.4 Identification Systems
RFID Cable Ties and Accessories

Detectable cable ties with integrated RFID transponder

MCTRFD - Low Frequency (LF) and High Frequency (HF)

Metal content RFID cable ties offer an innovative solution for unique and fast product identification thanks to the fitting of a transponder directly to the cable tie. The metal content RFID cable ties are made with a percentage of a metallic trace element (magnet/X-Ray) and have been especially developed for industries where the potential for foreign body contamination is a problem. The ties can be used for securing, serialisation, tracking and identification of products e.g. in the food processing or pharmaceutical industry to support quality control effort.

Features and benefits
- Magnetic or X-Ray detectable RFID cable ties (detection level depending on specific application)
- Total metal dispersion throughout the tie
- For safe handling of production processes
- Blue colour for easy visual detection
- Flexible, contactless data communication
- Clear identification of objects through unique numbering
- Faster data management compared to paper solution
- More accurate documentation processes – prevention of human errors
- Robust and resistant to harsh environments and cleaning processes
- Low frequency (LF – 125 kHz) - Read only
- High frequency (HF – 13.56 MHz) - Rewritable

Detectable cable ties with integrated RFID transponder

MCTRFD – Detectable cable ties (metal content) with RFID transponder.

| MATERIAL | Polyamide 6.6, with metal particles (PA66MP) |
| Frequency | 125 kHz (LF) | 13.56 MHz (HF) |
| Idle Temperature | -40 °C to +85 °C |
| Operating Temperature | -40 °C to +85 °C | -25 °C to +85 °C |
| Flammability | UL94 HB |

Features and benefits:

- Magnetic or X-Ray detectable RFID cable ties (detection level depending on specific application)
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**TYPE** | **Frequency** | **Bundle Ø min.** | **Bundle Ø max.** | **Width (W)** | **Length (L)** | **Colour** | **Pack Cont.** | **Tools** | **Article-No.** |
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<tbody>
<tr>
<td>MCTRFDCL</td>
<td>125 kHz (LF)</td>
<td>1.5</td>
<td>50.0</td>
<td>4.6</td>
<td>200.0</td>
<td>Blue (BU)</td>
<td>100 pcs.</td>
<td>6;54</td>
<td>111-01976</td>
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<tr>
<td>MCTRFDCHA</td>
<td>13.56 MHz (HF)</td>
<td>1.5</td>
<td>50.0</td>
<td>4.6</td>
<td>200.0</td>
<td>Blue (BU)</td>
<td>100 pcs.</td>
<td>6;52-53</td>
<td>111-01676</td>
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All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

Recommended Tools

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<th>6</th>
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<th>53</th>
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<tbody>
<tr>
<td>EVO7</td>
<td>RFID-DT22-HF</td>
<td>RFID-HS9BT-HF</td>
<td>RFID-HS9BT-LF</td>
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For more information on toolings please refer to the Application Tooling chapter.

For product specific approvals and specifications please refer to the Appendix.

Date of issue: 10/2017