Low profile cable ties for playgrounds

Outside-serrated cable ties, fixing bases, spacers and tools for safe fastening in restricted spaces
Cable Ties and Fixings
Cable Ties Outside Serrated

Cable ties with low profile head

These ties are particularly useful in areas with restricted space. The low profile design ensures that nothing snags on the heads. Coloured low profile cable ties are ideal for securing foam padding to playground equipment or as a simple means of identifying equipment.

Features and benefits
- Outside serrated cable tie with a smooth surface to the bundle
- Coloured cable ties can be used for identification.
- Broad contact area with the bundle minimises risk of damage
- Low profile head for ideal use in restricted spaces
- Parallel entry for optimal fit around circular bundles

PE-Series - Low profile cable ties are minimising the risk of injury and simultaneously taking it easy on the material.

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>Polyamide 6.6 (PA66)</th>
<th>Polyamide 6.6, heat and UV-resistant (PA66HSW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>-40 °C to +85 °C</td>
<td>-40 °C to +105 °C</td>
</tr>
<tr>
<td>Flammability</td>
<td>UL 94 V2</td>
<td></td>
</tr>
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</tr>
<tr>
<td>Flammability</td>
<td>UL 94 V2</td>
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</table>

Cable Ties Outside Serrated

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Width (W)</th>
<th>Length (L)</th>
<th>Bundle Ø max.</th>
<th>Material</th>
<th>Colour</th>
<th>Pack Cont.</th>
<th>Article-No.</th>
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</thead>
<tbody>
<tr>
<td>PE180</td>
<td>9.0</td>
<td>180.0</td>
<td>42.0</td>
<td>445</td>
<td>PA66HSW</td>
<td>Black (BK)</td>
<td>100 pcs.</td>
</tr>
<tr>
<td>PE400</td>
<td>9.0</td>
<td>400.0</td>
<td>116.0</td>
<td>445</td>
<td>PA66</td>
<td>Black (BK)</td>
<td>100 pcs.</td>
</tr>
<tr>
<td></td>
<td>9.0</td>
<td>400.0</td>
<td>116.0</td>
<td>445</td>
<td>PA66</td>
<td>Blue (BU)</td>
<td>100 pcs.</td>
</tr>
<tr>
<td></td>
<td>9.0</td>
<td>400.0</td>
<td>116.0</td>
<td>445</td>
<td>PA66</td>
<td>Brown (BN)</td>
<td>100 pcs.</td>
</tr>
<tr>
<td></td>
<td>9.0</td>
<td>400.0</td>
<td>116.0</td>
<td>445</td>
<td>PA66</td>
<td>Green (GN)</td>
<td>100 pcs.</td>
</tr>
<tr>
<td></td>
<td>9.0</td>
<td>400.0</td>
<td>116.0</td>
<td>445</td>
<td>PA66</td>
<td>Grey (GY)</td>
<td>100 pcs.</td>
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<tr>
<td></td>
<td>9.0</td>
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<td>PA66</td>
<td>Natural (NA)</td>
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<tr>
<td></td>
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<td>PA66</td>
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<tr>
<td></td>
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<td>445</td>
<td>PA66</td>
<td>Pink (PK)</td>
<td>100 pcs.</td>
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<tr>
<td></td>
<td>9.0</td>
<td>400.0</td>
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<td>445</td>
<td>PA66</td>
<td>Purple (PE)</td>
<td>100 pcs.</td>
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<tr>
<td></td>
<td>9.0</td>
<td>400.0</td>
<td>116.0</td>
<td>445</td>
<td>PA66</td>
<td>Red (RD)</td>
<td>100 pcs.</td>
</tr>
<tr>
<td></td>
<td>9.0</td>
<td>400.0</td>
<td>116.0</td>
<td>445</td>
<td>PA66</td>
<td>Yellow (YE)</td>
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<tr>
<td>PE530</td>
<td>9.0</td>
<td>535.0</td>
<td>146.0</td>
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<td>Black (BK)</td>
<td>100 pcs.</td>
</tr>
</tbody>
</table>

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

RPE-Series releasable

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Width (W)</th>
<th>Length (L)</th>
<th>Bundle Ø max.</th>
<th>Material</th>
<th>Colour</th>
<th>Pack Cont.</th>
<th>Article-No.</th>
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<tr>
<td>RPE275</td>
<td>9.0</td>
<td>275.0</td>
<td>69.0</td>
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<td>RPE350</td>
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<td>350.0</td>
<td>92.0</td>
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<td>PA66HSW</td>
<td>Black (BK)</td>
<td>100 pcs.</td>
</tr>
</tbody>
</table>

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Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.
Cable ties with low profile head

LPH-Series

LPH cable ties are made of Polyamide 6.6 materials. The design with its serration on the outside provides a smooth surface to the bundle. Any damage to the insulation can be avoided. The flat head is ideal in areas with restricted space. They are mainly used within the electrical industry but the tough design is perfectly suited to a variety of indoor and outdoor applications.

Features and benefits
• High impact modified cable ties are also available.
• Good tensile strength with a single - or a double bridged head.
• Outside serration allows for a smooth surface to the bundle.
• Design protects against damage to cable insulation.
• Low profile head for optimised use especially in restricted spaces.
• Strap is threaded parallel through the low profile head.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<td>LPH175</td>
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<td>LPH275</td>
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<td>265.0</td>
<td>62.0</td>
<td>480</td>
<td>PA66HIR(S)</td>
<td>Black (BK)</td>
<td>100 pcs.</td>
<td>112-00303</td>
</tr>
<tr>
<td>LPH350</td>
<td>9.0</td>
<td>355.0</td>
<td>92.0</td>
<td>480</td>
<td>PA66HIR(S)</td>
<td>Black (BK)</td>
<td>100 pcs.</td>
<td>112-00403</td>
</tr>
<tr>
<td>LPH500</td>
<td>9.0</td>
<td>505.0</td>
<td>140.0</td>
<td>540</td>
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<td>100 pcs.</td>
<td>112-00033</td>
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<td>LPH750</td>
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<td>752.0</td>
<td>220.0</td>
<td>540</td>
<td>PA66HIR(S)</td>
<td>Black (BK)</td>
<td>100 pcs.</td>
<td>112-00034</td>
</tr>
</tbody>
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Cable ties with low profile head

Robusto-Series

Robusto cable ties manufactured from PA11 have many technical features making them suitable for use in a variety of applications to fix and support cables, pipes and other elements. They offer an excellent resistance to chemicals in most challenging environments like offshore or on oil rigs and construction vehicles. In addition, the very good UV resistance makes it a perfect choice for solar panel installations.

Features and benefits
- Made of Polyamide 11 – a sustainable bioplastic
- Outside serrated cable tie with rounded head design
- Low insertion force for tool-free application
- High tensile strength with a single – or a double-bridged head
- Soft material for easy handling without damaging the bundle
- Very good UV resistance and durability in outdoor applications
- Stable technical performance even at very low temperatures
- Offers limited resistance to acids, bases and oxidising agents
- Low water absorption rate and high durability
- Prelocking possible by pushing the strap through the eyelet

MATERIAL
Polyamide 11 (PA11)

Operating Temperature
-40 °C to +85 °C

Flammability
UL 94 HB

RoHS

Flat head cable tie from sustainable bioplastic, Robusto-Series.

Cable Ties Outside Serrated

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Flammability
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RoHS

Flat head cable tie from sustainable bioplastic, Robusto-Series.
Fixing Base

LOK-Series

The LOK mounts, in conjunction with a cable tie, can be used either indoors or outdoors for a diverse range of applications from holding climbing plants, to securing cables running between buildings.

Features and benefits
- LOK01 - LOK05 usable with any cable ties up to 9 mm wide
- Suitable for a wide range of materials, including concrete, brick, block and wood
- Installed by knocking into 7 mm or 8 mm diameter hole
- LOK01B is designed for soft brickwork and 6 mm holes
- Elongated head of LOK05 for setting bundles at a distance from brickwork

The whole LOK-Series can ideally be combined with cable ties up to 9 mm cable tie width.

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Width (W)</th>
<th>Length (L)</th>
<th>Length (L2)</th>
<th>Length (L3)</th>
<th>Ø (D)</th>
<th>Strap Width max. (G)</th>
<th>Hole Ø (FH)</th>
<th>Material</th>
<th>Colour</th>
<th>Article-No.</th>
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</thead>
<tbody>
<tr>
<td>LOK01B</td>
<td>12.0</td>
<td>30.0</td>
<td>6.5</td>
<td>2.5</td>
<td>7.2</td>
<td>9.0</td>
<td>6.0</td>
<td>PA6HIR</td>
<td>Black (BK)</td>
<td>151-80500</td>
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<tr>
<td>LOK01S</td>
<td>12.0</td>
<td>34.0</td>
<td>6.5</td>
<td>2.5</td>
<td>9.2</td>
<td>9.0</td>
<td>7.0 - 8.0</td>
<td>PA6HIR</td>
<td>Black (BK)</td>
<td>151-80600</td>
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<td>LOK01</td>
<td>12.0</td>
<td>44.0</td>
<td>6.5</td>
<td>2.5</td>
<td>9.2</td>
<td>9.0</td>
<td>7.0 - 8.0</td>
<td>PA6HIR</td>
<td>Black (BK)</td>
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<tr>
<td>LOK05</td>
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<td>49.0</td>
<td>12.5</td>
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<td>7.0 - 8.0</td>
<td>PA6HIR</td>
<td>Black (BK)</td>
<td>151-80110</td>
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</tbody>
</table>

All dimensions in mm. Subject to technical changes.
Fixing Base

**LOK02**

Designed specifically for holding heavier cable bundles these mounting bases can be used in many industries from agriculture to truck manufacturing. LOK cable tie mounts offer a very secure fixing and can be used in combination with cable ties up to 9 mm width.

**Features and benefits**

- Special design of fixing base gives additional support to cables
- Simple to install with a screw or bolt
- Excellent security, particularly in areas of high vibration

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Width (W)</th>
<th>Length (L)</th>
<th>Height (H)</th>
<th>Hole Ø (FH)</th>
<th>Strap Width max. (G)</th>
<th>Material</th>
<th>Colour</th>
<th>Article-No.</th>
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<tr>
<td>LOK02</td>
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<td>21.0</td>
<td>18.0</td>
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<td>Black (BK)</td>
<td>151-80210</td>
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</tbody>
</table>

All dimensions in mm. Subject to technical changes.

**LOK04-Series, Spacer for parallel Routing**

The LOK04 spacer is ideal whenever two or more cables are routed in parallel.

**Features and benefits**

- For routing bundles over a distance in parallel
- Can be used with cable ties up to 9 mm cable tie width

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Width (W)</th>
<th>Length (L)</th>
<th>Strap Width max. (G)</th>
<th>Material</th>
<th>Colour</th>
<th>Article-No.</th>
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<tbody>
<tr>
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<td>16.0</td>
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<td>PA66</td>
<td>Black (BK)</td>
<td>151-80400</td>
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</tbody>
</table>

All dimensions in mm. Subject to technical changes.
The EVO9 is available in a standard grip span 90 mm (EVO9) or short grip span 80 mm (EVO9SP), for smaller hands. Both tools perform between 53N and 307N. The EVO9HT (high tension) was designed to apply HellermannTyton cable ties from 120N until 516N with a maximum width of 13.5 mm.

Features and benefits
- Standard grip span (90 mm) and short grip span (80 mm) available
- Ergonomic, slip-proof handle for a comfortable and secure grip
- Extremely low-maintenance
- Fast and precise application with minimum effort (TLC-technology)
- Convenient and simple tension adjustment
- Integrated 3 position quick adjustment override (EVO9/EVO9SP/ EVO9HT)
- Housing made of resilient and lightweight glass fibre-reinforced polyester

Manual tensioning tool plastic housing
**EVO9 up to 13.5 mm strap width**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Description</th>
<th>Strap Width max.</th>
<th>Strap Thickness max.</th>
<th>Weight</th>
<th>Article-No.</th>
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<tbody>
<tr>
<td>EVO9</td>
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<td>13.5</td>
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<td>EVO9HT</td>
<td>EVO9HT</td>
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<td>2.0</td>
<td>0.364 kg</td>
<td>110-80017</td>
</tr>
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</table>

All dimensions in mm. Subject to technical changes.

Manual tensioning tool for cable ties with low profile head
**MK10-SB up to 9.5 mm strap width**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Strap Width max.</th>
<th>Strap Thickness max.</th>
<th>Weight</th>
<th>Article-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MK10-SB</td>
<td>9.5</td>
<td>2.5</td>
<td>0.372 kg</td>
<td>110-10001</td>
</tr>
</tbody>
</table>

All dimensions in mm. Subject to technical changes.

Protects muscles and joints.