### Fixing Elements for Tubes and Harnesses with Automatic Locking Feature, connectable

**IAHC-Serie, Connectable, with Arrowhead**

- **Material specification** please see page 26.

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**IAHC elements can be connected.**

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#### Material specification

**IAHC elements can be connected.**

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#### Table: Fixing Elements for Tubes and Harnesses with Automatic Locking Feature, connectable

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Drawing</th>
<th>Width (W)</th>
<th>Length (L)</th>
<th>Bundle Ø max.</th>
<th>Hole Ø (FH)</th>
<th>Material</th>
<th>Colour</th>
<th>Article-No.</th>
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</thead>
<tbody>
<tr>
<td>IAHC3AH</td>
<td><img src="image" alt="IAHC3AH" /></td>
<td>13.5</td>
<td>40.0</td>
<td>28.0</td>
<td>6.2 - 6.7</td>
<td>PA6H1RHS</td>
<td>Black (BK)</td>
<td>151-00378</td>
</tr>
<tr>
<td>IAHC4AH</td>
<td><img src="image" alt="IAHC4AH" /></td>
<td>13.5</td>
<td>53.0</td>
<td>36.0</td>
<td>6.2 - 6.7</td>
<td>PA6H1RHS</td>
<td>Black (BK)</td>
<td>151-00211</td>
</tr>
<tr>
<td></td>
<td></td>
<td>13.5</td>
<td>53.0</td>
<td>36.0</td>
<td>6.2 - 6.7</td>
<td>PA6H1RHS</td>
<td>Black (BK)</td>
<td>151-00382</td>
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<tr>
<td>IAHC5BH</td>
<td><img src="image" alt="IAHC5BH" /></td>
<td>13.5</td>
<td>57.0</td>
<td>45.0</td>
<td>6.2 x 12.2</td>
<td>PA6H1RHS</td>
<td>Black (BK)</td>
<td>151-00384</td>
</tr>
<tr>
<td>IAHC3CH</td>
<td><img src="image" alt="IAHC3CH" /></td>
<td>10.0</td>
<td>47.0</td>
<td>28.0</td>
<td>6.2 x 12.2</td>
<td>PA6H1RHS</td>
<td>Black (BK)</td>
<td>151-00381</td>
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<tr>
<td>IAHC4CH</td>
<td><img src="image" alt="IAHC4CH" /></td>
<td>13.5</td>
<td>53.0</td>
<td>36.0</td>
<td>6.2 x 12.2</td>
<td>PA6H1RHS</td>
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<tr>
<td>IAHC3EH</td>
<td><img src="image" alt="IAHC3EH" /></td>
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<td>44.5</td>
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<td>6.2 x 12.2</td>
<td>PA6H1RHS</td>
<td>Black (BK)</td>
<td>151-00489</td>
</tr>
<tr>
<td>IAHC5FH</td>
<td><img src="image" alt="IAHC5FH" /></td>
<td>13.5</td>
<td>61.5</td>
<td>45.0</td>
<td>6.2 x 12.2</td>
<td>PA6H1RHS</td>
<td>Black (BK)</td>
<td>151-00787</td>
</tr>
</tbody>
</table>

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*All dimensions in mm. Subject to technical changes.*
## Material Specification Overview

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>Material Shortcut</th>
<th>Operating Temperature</th>
<th>Colour**</th>
<th>Flammability</th>
<th>Material Properties*</th>
<th>Material Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium-alloy</td>
<td>AL</td>
<td>-40 °C to +180 °C</td>
<td>Natural (NA)</td>
<td></td>
<td>• Corrosion resistant</td>
<td>RoHS</td>
</tr>
<tr>
<td>Chloroprene</td>
<td>CR</td>
<td>-20 °C to +80 °C</td>
<td>Black (BK)</td>
<td></td>
<td>• Weather-resistant</td>
<td>RoHS</td>
</tr>
<tr>
<td>Ethylene Tetrafluoroethylene (Tefzel®)</td>
<td>E/TFE</td>
<td>-80 °C to +170 °C</td>
<td>Blue (BU)</td>
<td>UL 94 V0</td>
<td>• Resistance to radioactivity</td>
<td>RoHS</td>
</tr>
<tr>
<td>Polyacetal</td>
<td>POM</td>
<td>-40 °C to +90 °C, (+110 °C, 500 h)</td>
<td>Natural (NA)</td>
<td>UL 94 HB</td>
<td>• Limited brittleness sensitivity</td>
<td>RoHS</td>
</tr>
<tr>
<td>Polyamide 11</td>
<td>PA11</td>
<td>-40 °C to +85 °C, (+105 °C, 500 h)</td>
<td>Black (BK)</td>
<td>UL 94 HB</td>
<td>• Good chemical resistance to: acids, bases, oxidizing agents</td>
<td>RoHS</td>
</tr>
<tr>
<td>Polyamide 12</td>
<td>PA12</td>
<td>-40 °C to +85 °C, (+105 °C, 500 h)</td>
<td>Black (BK)</td>
<td>UL 94 HB</td>
<td>• Bio-plastic, derived from vegetable oil</td>
<td>RoHS</td>
</tr>
<tr>
<td>Polyamide 4.6</td>
<td>PA46</td>
<td>-40 °C to +150 °C (5000 h), +195 °C (500 h)</td>
<td>Natural (NA), Grey (GY)</td>
<td>UL 94 V2</td>
<td>• Resistance to high temperatures</td>
<td>RoHS</td>
</tr>
<tr>
<td>Polyamide 6</td>
<td>PA6</td>
<td>-40 °C to +80 °C</td>
<td>Black (BK)</td>
<td>UL 94 V2</td>
<td>• High yield strength</td>
<td>RoHS</td>
</tr>
<tr>
<td>Polyamide 6, high impact modified</td>
<td>PA6HIR</td>
<td>-40 °C to +80 °C</td>
<td>Black (BK)</td>
<td>UL 94 HB</td>
<td>• Limited brittleness sensitivity</td>
<td>RoHS</td>
</tr>
<tr>
<td>Polyamide 6.6</td>
<td>PA66</td>
<td>-40 °C to +85 °C, (+105 °C, 500 h)</td>
<td>Black (BK), Natural (NA)</td>
<td>UL 94 V2</td>
<td>• High yield strength</td>
<td>RoHS</td>
</tr>
<tr>
<td>Polyamide 6.6, glass-fibre reinforced</td>
<td>PA66GF13, PA66GF15</td>
<td>-40 °C to +105 °C</td>
<td>Black (BK)</td>
<td>UL 94 HB</td>
<td>• Good resistance to: lubricants, vehicle fuel, salt water and a lot of solvent</td>
<td>RoHS</td>
</tr>
<tr>
<td>Polyamide 6.6, heat and UV stabilised</td>
<td>PA66HSW</td>
<td>-40 °C to +105 °C</td>
<td>Black (BK)</td>
<td>UL 94 V2</td>
<td>• High yield strength</td>
<td>RoHS</td>
</tr>
<tr>
<td>Polyamide 6.6, heat stabilised</td>
<td>PA66S</td>
<td>-40 °C to +105 °C</td>
<td>Black (BK), Natural (NA)</td>
<td>UL 94 V2</td>
<td>• High yield strength</td>
<td>RoHS</td>
</tr>
<tr>
<td>Polyamide 6.6, high impact modified</td>
<td>PA66HIR</td>
<td>-40 °C to +80 °C, (+105 °C, 500 h)</td>
<td>Black (BK)</td>
<td>UL 94 HB</td>
<td>• Limited brittleness sensitivity</td>
<td>RoHS</td>
</tr>
<tr>
<td>Polyamide 6.6, high impact modified, heat and UV stabilised</td>
<td>PA66HIRHSW</td>
<td>-40 °C to +110 °C</td>
<td>Black (BK)</td>
<td>UL 94 HB</td>
<td>• Limited brittleness sensitivity</td>
<td>RoHS</td>
</tr>
<tr>
<td>Polyamide 6.6, high impact modified, heat stabilised</td>
<td>PA66HIRHS</td>
<td>-40 °C to +105 °C</td>
<td>Black (BK)</td>
<td>UL 94 HB</td>
<td>• Limited brittleness sensitivity</td>
<td>RoHS</td>
</tr>
<tr>
<td>Polyamide 6.6, high impact modified, ScanBlack</td>
<td>PA66HIR(S)</td>
<td>-40 °C to +80 °C, (+105 °C, 500 h)</td>
<td>Black (BK)</td>
<td>UL 94 HB</td>
<td>• Limited brittleness sensitivity</td>
<td>RoHS</td>
</tr>
<tr>
<td>Polyamide 6.6, UV-resistant</td>
<td>PA66W</td>
<td>-40 °C to +85 °C, (+105 °C, 500 h)</td>
<td>Black (BK)</td>
<td>UL 94 V2</td>
<td>• High yield strength</td>
<td>RoHS</td>
</tr>
</tbody>
</table>

*Material Specifications:
- **MATERIAL**
- **Material Shortcut**
- **Operating Temperature**
- **Colour**
- **Flammability**
- **Material Properties**

**Notes:**
- Natural (NA)
- Black (BK)
- Blue (BU)
- UL 94 V0
- UL 94 HB
- HF
- LFH
- RoHS
### MATERIALS

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>Material Shortcut</th>
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<th>Colour**</th>
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<th>Material Properties*</th>
<th>Material Specifications</th>
</tr>
</thead>
</table>
| Polyamide 6.6, with metal particles | PA66MP | -40 °C to +85 °C, (+105 °C, 500 h) | Blue (BU) | UL 94 HB | • High yield strength  
• Metal and X-Ray detectable | **HF**  
**RoHS** |
| Polyamide 6.6, with metal particles | PA66MP+ | -40 °C to +85 °C | Blue (BU) | not flame retardant | • High yield strength  
• Metal and x-ray detectable | **HF**  
**RoHS** |
| Polyamide 6.6 V0 | PA66V0 | -40 °C to +85 °C | White (WH) | UL 94 V0 | • High yield strength  
• Low smoke emission | **HF**  
**LFH**  
**RoHS** |
| Polyester | SP | -50 °C to +150 °C | Black (BK) | halogen free | • UV-resistant  
• Good chemical resistance to: most acids, alkalis and oils | **HF**  
**LFH**  
**RoHS** |
| Polyetheretherketone | PEEK | -55 °C to +240 °C | Beige (BG) | UL 94 V0 | • Resistance to radioactivity  
• Not moisture sensitive  
• Good chemical resistance to: acids, bases, oxidizing agents | **HF**  
**LFH**  
**RoHS** |
| Polyethylene | PE | -40 °C to +50 °C | Black (BK), Grey (GY) | UL 94 HB | • Low moisture absorption  
• Good chemical oil resistance to: most acids, alcohol and oils | **HF**  
**LFH**  
**RoHS** |
| Polyolefin | PO | -40 °C to +90 °C | Black (BK) | UL 94 V0 | • Low smoke emissions | **HF**  
**LFH**  
**RoHS** |
| Polypropylene | PP | -40 °C to +115 °C | Black (BK), Natural (NA) | UL 94 HB | • Floats in water  
• Moderate yield strength  
• Good chemical resistance to: organic acids | **HF**  
**RoHS** |
| Polypropylene, Ethylene-Propylene-Dien-Terpolymere-rubber free of Nitrosamine | PP, EPDM | -20 °C to +95 °C | Black (BK), Natural (NA) | UL 94 HB | • Good resistance to high temperatures  
• Good chemical and abrasion resistance | **HF**  
**RoHS** |
| Polypropylene with metal particles | PPMP | -40 °C to +115 °C | Blue (BU) | UL 94 HB | • Metal and X-Ray detectable  
• Heat resistant  
• Moderate yield strength  
• Good chemical resistance | **RoHS** |
| Polypropylene with metal particles | PPMP+ | -40 °C to +85 °C | Blue (BU) | not flame retardant | • High yield strength  
• Metal and x-ray detectable | **HF**  
**RoHS** |
| Polyvinylchloride | PVC | -10 °C to +70 °C | Black (BK), Natural (NA) | UL 94 V0 | • Low moisture absorption  
• Good chemical resistance to: acids, ethanol and oil | **RoHS** |
| Stainless Steel | SS304, SS316 | -80 °C to +538 °C | Natural (NA) | non-burning | • Corrosion resistant  
• Antimagnetic  
• Weather resistant  
• Outstanding chemical resistance | **HF**  
**LFH**  
**RoHS** |
| Thermoplastic Polyurethane | TPU | -40 °C to +85 °C | Black (BK) | UL 94 HB | • High elastic  
• Good chemical resistance to: acids, bases and oxidizing agents | **HF**  
**RoHS** |

**More colours on request.**

**HF = Halogenfree**  
**LFH = Limited Fire Hazard**  
**RoHS = Restriction of Hazardous Substances**

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Tefzel® is a registered trademark of DuPont. General linguistic usage for cable ties made from raw material E/TFE is Tefzel®. In addition to Tefzel® from DuPont HellermannTyton is also using equivalent E/TFE raw material from other suppliers.

*These details are only rough guide values. They should not be regarded as a material specification and are no substitute for a suitability test. Please see our datasheets for further details.

N = Minimum Loop Tensile Strength for Cable Ties (Newton)