Supported camera families
Allied Vision Alvium USB cameras

**Alvium USB cameras documentation**

Avoiding material damage to the camera

**NOTICE**
**Malfunctions and short circuits by damaged cables and connectors**
Provide sufficient strain relief for all cable connections.

Power supply voltage for I/O cables
If you are using I/O cables, voltage drops may result, causing the following issues:

- The camera cannot be operated.
- The camera does not respond to trigger pulses.
- The output signal to control devices connected to the camera is not recognized.

To provide a proper power supply voltage, adjust the DC input voltage at the open ends of the cable as shown in Table 1.

**NOTICE**
**Damage to camera electronics**
The following values apply to the Allied Vision I/O cables shown.
If you are using your own cables, ensure the power supply voltage at the camera connector side is 4.5 to 5.5 VDC.

<table>
<thead>
<tr>
<th>Product code</th>
<th>Product description</th>
<th>Length</th>
<th>Power supply voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>12322</td>
<td>I/O cable 7-pin JST with screw locks, 3 m</td>
<td>3 m ±100 mm</td>
<td>4.5 to 5.5 VDC</td>
</tr>
<tr>
<td>17070</td>
<td>I/O cable 7-pin JST with screw locks, 5 m</td>
<td>5 m ±100 mm</td>
<td>5 to 5.5 VDC</td>
</tr>
</tbody>
</table>

*At the open ends of the cable

Table 1: Adjusted values for power supply voltage by I/O cable length
Importer into the EU
Elektrosil GmbH
Ruhrstraße 53
22761 Hamburg, Germany
Tel// +49 40 84 00 01-0
Fax// +49 40 84 00 01-65

Distributor in the EU
Allied Vision Technologies GmbH
Taschenweg 2a
07646 Stadtroda, Germany
Tel// +49 36428 677-0
Fax// +49 36428 677-28

Contacting Allied Vision
General
www.alliedvision.com/en/contact
info@alliedvision.com

Distribution partners
www.alliedvision.com/en/avt-locations/avt-distributors

Support
www.alliedvision.com/en/support
Wiring table

<table>
<thead>
<tr>
<th>Pins</th>
<th>Color</th>
<th>AWG</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Red</td>
<td>#22</td>
</tr>
<tr>
<td>2</td>
<td>Brown</td>
<td>#28</td>
</tr>
<tr>
<td>3</td>
<td>Orange</td>
<td>#28</td>
</tr>
<tr>
<td>4</td>
<td>Yellow</td>
<td>#28</td>
</tr>
<tr>
<td>5</td>
<td>Green</td>
<td>#28</td>
</tr>
<tr>
<td>6</td>
<td>Black</td>
<td>#22</td>
</tr>
<tr>
<td>7</td>
<td>Transparent Braid</td>
<td></td>
</tr>
</tbody>
</table>

Length, see table 1 on page 1

Connector 1 Color AWG

Vertical pressure F ≤1.5 Kg

Bending >500 cycles (Bending angle R ±60°) Speed (cycles/min) 30

Max. torque 0.2 Nm For the screw

Connector 1

Top view

Side view