I/O Cables for Alvium USB Cameras
7-Pin JST Screw Lock to Open End

Supported camera families

Allied Vision Alvium USB cameras

Alvium USB cameras documentation

For more information, see the Alvium USB Cameras User Guide at
www.alliedvision.com/en/support/technical-documentation/
alvium-usb-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.

Product code	Product description	Length	Power supply voltage
12320	I/O cable 7-pin JST with screw locks, 1 m	1 m ±50 mm	4.5 to 5.5 VDC
12321	I/O cable 7-pin JST with screw locks, 2 m	2 m ±100 mm	4.5 to 5.5 VDC
12322	I/O cable 7-pin JST with screw locks, 3 m	3 m ±100 mm	4.5 to 5.5 VDC
17070	I/O cable 7-pin JST with screw locks, 5 m	5 m ±100 mm	5 to 5.5 VDC
[1]At the open ends of the cable			

Table 1: Adjusted values for power supply voltage by I/O cable length

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Distributor in the EU

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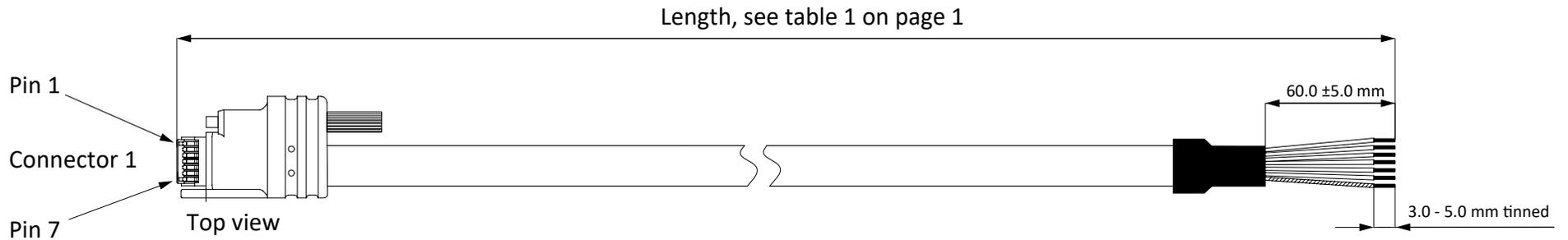
Contacting Allied Vision

General

www.alliedvision.com/en/contact
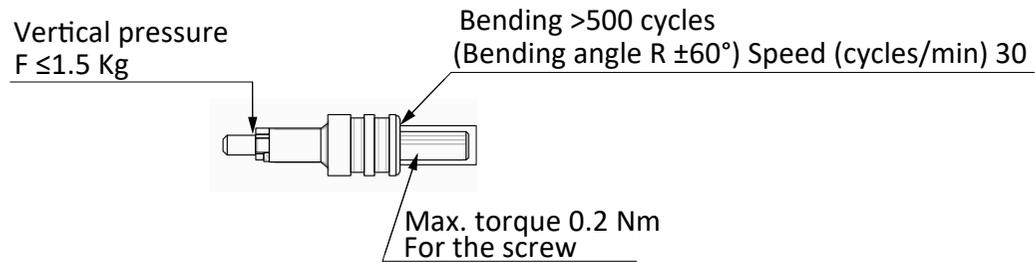info@alliedvision.com

Distribution partners

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

Support

www.alliedvision.com/en/support
www.alliedvision.com/en/about-us/contact-us/technical-support-repair-/-rma

Length, see table 1 on page 1

Pin 1

Connector 1

Pin 7

Top view

60.0 ±5.0 mm

3.0 - 5.0 mm tinned

Connector 1
Side view

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

Wiring table

Pins Connector 1	Color	AWG
1	Red	#22
2	Brown	#28
3	Orange	#28
4	Yellow	#28
5	Green	#28
6	Black	#22
7	Transparent	Braid