

# Basler Accessories



## Technical Specification

### **OPTO-I/O CABLE 6P/OPEN**

**Order Number**

**2000034086**

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| Order Number | Description   | Applicable Cameras |
|--------------|---|--------------------|
| 2000034086   | Opto-I/O Cable, 6p/open, 10 m<br>Input/Output (I/O) cable connecting only to the opto-isolated I/O pins (IN, OUT, Opto Ground) of the camera's 6-pin connector. | ace USB 3.0        |

Table 1: Cable Type

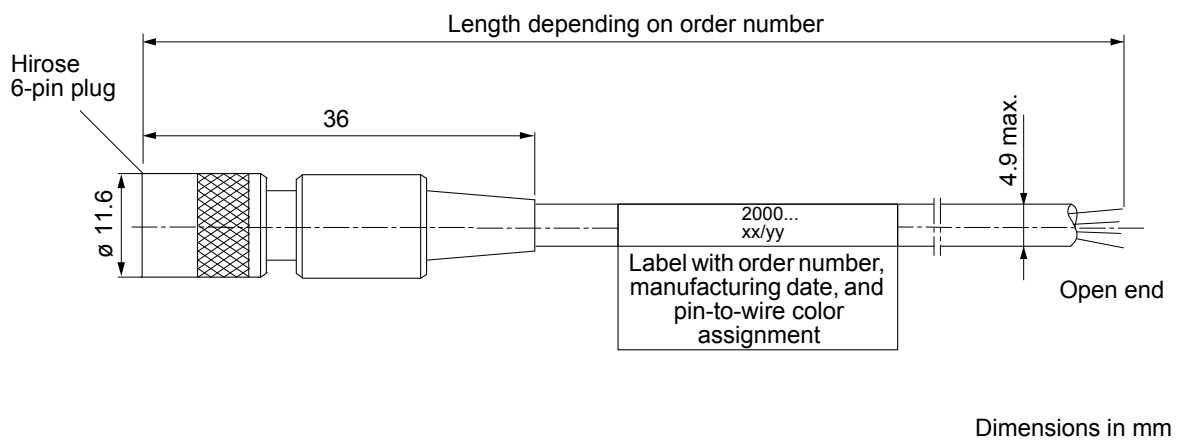


Fig. 1: Cable Overview

### Wiring Information

| Pin Number | Wire Color | Function                   |
|------------|------------|----------------------------|
| 1          | n/a        | Not connected              |
| 2          | Brown      | Opto-isolated IN (Line 1)  |
| 3          | n/a        | Not connected              |
| 4          | Yellow     | Opto-isolated OUT (Line 2) |
| 5          | White      | Opto-isolated I/O Ground   |
|            | Green      |                            |
| 6          | n/a        | Not connected              |

Table 2: Wiring Information

## Physical Specifications

|                                      |  |
|--------------------------------------|--|
| Camera-side Connector                | Hirose, 6 pin [HR10A-7P-6S (73)]                 |
| Host-side Connector                  | None, open end                                   |
| Cable Cross-section                  | 2 × 2 × 0.14 mm <sup>2</sup> (close to AWG 26)   |
| Cable Diameter                       | 4.9 mm max.                                      |
| Wire Insulation                      | PVC  |
| Outer Jacket                         | PVC  |
| Color Outer Jacket                   | Blue   |
| Minimum Bending Radius               | 34.3 mm (7 x cable diameter), fixed installation |
| Maximum Bending Cycles               | None (fixed installation only)                   |
| Suitable for Drag Chain Applications | No   |
| Suitable for Robotics Applications   | No   |

Table 3: Physical Specifications

## Electrical Specifications

|                           |                          |
|---------------------------|--------------------------|
| Maximum Operating Voltage | See camera user's manual |
| Wire Resistance           | ≤ 142 Ω/km               |

Table 4: Electrical Specifications

## Environmental Specifications

|                             |                               |
|-----------------------------|-------------------------------|
| Operating Temperature Range | -25 °C... +80 °C (not moving) |
|-----------------------------|-------------------------------|

Table 5: Environmental Specifications

## Plug Specifications

|                          |                      |
|--------------------------|----------------------|
| Durability               | > 1000 mating cycles |
| Contact Resistance       | 10 mΩ max.           |
| Contact Plating          | Silver               |
| Protection Rating        | IP40                 |
| Plug Insulation Material | Polyamide/PBT        |

Table 6: Plug Specifications

## General Information

|                 |                       |
|-----------------|-----------------------|
| RoHS Compliance | Yes                   |
| CE Conformity   | Yes (RoHS compliance) |
| UL Conformity   | No                    |
| Warranty        | 1 year                |

Table 7: General Information



The cables are intended for use with the cameras specified in [Table 1](#) only.

Read the camera user's manual including the precautions before connecting the cable to the camera. The user's manual also contains further information about pin assignments, power requirements, as well as comprehensive information about installing and using the camera.

You can download the camera user's manual and related documents free of charge from the Basler website: [www.baslerweb.com](http://www.baslerweb.com).

## Revision History

| Doc. ID Number | Date        | Changes                          |
|----------------|-------------|----------------------------------|
| DG00113201000  | 25 Jun 2015 | Initial release of the document. |

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