

# Basler Accessories



## Technical Specification

### I/O CABLE HRS 12P/OPEN

#### Order Numbers

**2000026691**

**2000026689**

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| Order Number | Description                                    | Applicable Cameras |
|--------------|------------------------------------------------|--------------------|
| 2000026691   | I/O Cable HRS 12p connector and open end, 3 m  | runner, racer GigE |
| 2000026689   | I/O Cable HRS 12p connector and open end, 10 m | runner, racer GigE |

Table 1: Cable Type

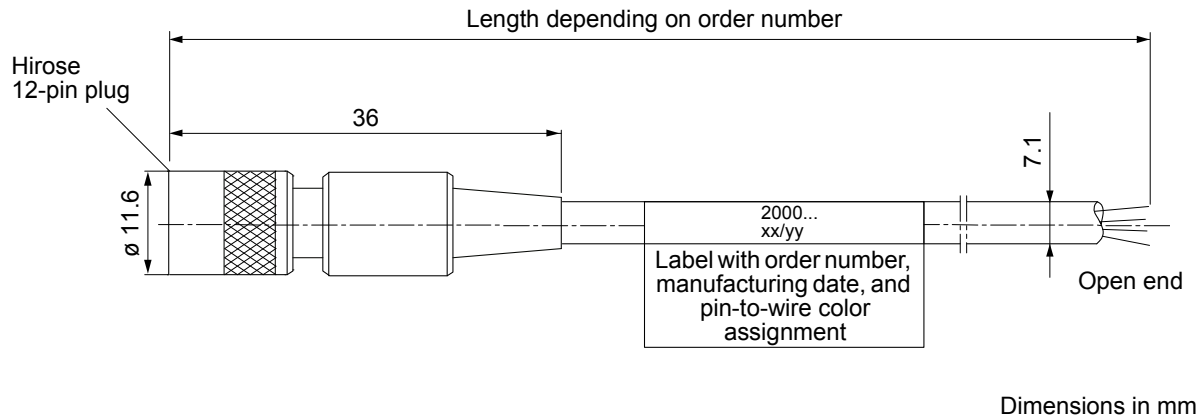


Fig. 1: Cable Overview

## Wiring Information

| Pin Number | Wire Color | Function        |
|------------|------------|-----------------|
| 1          | White      | Opto In 1 -     |
| 2          | Brown      | Opto In 1 +     |
| 3          | Green      | Opto In 3 -     |
| 4          | Yellow     | Opto In 3 +     |
| 5          | Gray       | Opto I/O Ground |
| 6          | Blue       | Opto Out 1 -    |
| 7          | Red        | Opto Out 1 +    |
| 8          | Black      | Opto In 2 -     |
| 9          | Violet     | Opto In 2 +     |
| 10         | Pink       | not connected   |
| 11         | Gray/Pink  | Opto Out 2 -    |
| 12         | Red/Blue   | Opto Out 2 +    |

Table 2: Wiring Information

For more details, see the respective camera user's manual.

## Physical Specifications

|                                      |                                                  |
|--------------------------------------|--------------------------------------------------|
| Camera-Side Connector                | Hirose, 12 pin [HR10A-10P-12S (73)]              |
| Host-Side Connector                  | None, open end                                   |
| Cable Cross-Section                  | 6 x 2 x 0.14 mm <sup>2</sup> (close to AWG 26)   |
| Cable Diameter                       | 7.1 mm                                           |
| Wire Insulation                      | PVC                                              |
| Outer Jacket                         | PVC                                              |
| Minimum Bending Radius               | 42.6 mm (6 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       | max. 10 mΩ           |
| Contact Plating          | Silver               |
| Protection Rating        | IP40                 |
| Plug Insulation Material | Polyamide/PBT        |

Table 6: Plug Specifications

## General Information

|                |            |
|----------------|------------|
| RoHS Compliant | Yes        |
| CE Conformity  | Yes (RoHS) |
| 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 safety warnings 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 user's manual and related documents for your camera free of charge from the Basler website: [www.baslerweb.com](http://www.baslerweb.com).

## Revision History

| Doc. ID Number | Date        | Changes                                                                                                                                          |
|----------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| AW00078301000  | 5 Jan 2009  | Initial release of this document.                                                                                                                |
| AW00078302000  | 6 Aug 2009  | Changed layout of document.<br>Updated support contact details.                                                                                  |
| AW00078303000  | 31 Jul 2012 | Updated support contact details.<br>Updated cable drawing.<br>Added racer GigE as applicable camera.                                             |
| AW00078304000  | 22 Jan 2015 | New cover photo.<br>Changed layout of document.<br>Added technical specifications in tables <a href="#">Table 2</a> to <a href="#">Table 7</a> . |
| AW00078305000  | 23 Jan 2015 | Removed "trigger" from name of cable throughout the document.                                                                                    |

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