

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 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

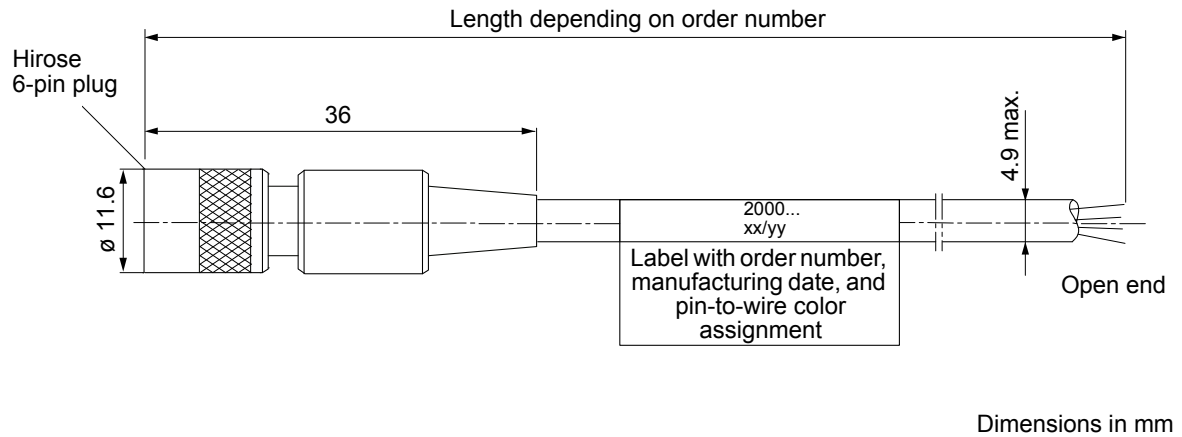


Fig. 1: Cable Overview

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	$2 \times 2 \times 0.14 \text{ mm}^2$ (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	$\leq 142 \text{ } \Omega/\text{km}$

Table 4: Electrical Specifications

Environmental Specifications

Operating Temperature Range	-25 °C... +80 °C (not moving)
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Table 5: Environmental Specifications

Plug Specifications

Durability	> 1000 mating cycles
Contact Resistance	10 m Ω 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.

Revision History

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