

Basler Accessories



Technical Specification

POWER-I/O CABLE M5 4P/OPEN

Order Number
2000031224

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Order Number	Description	Applicable Cameras
2000031224	Power-I/O Cable M5 4p/open, 10 m	ace CL

Table 1: Cable Type

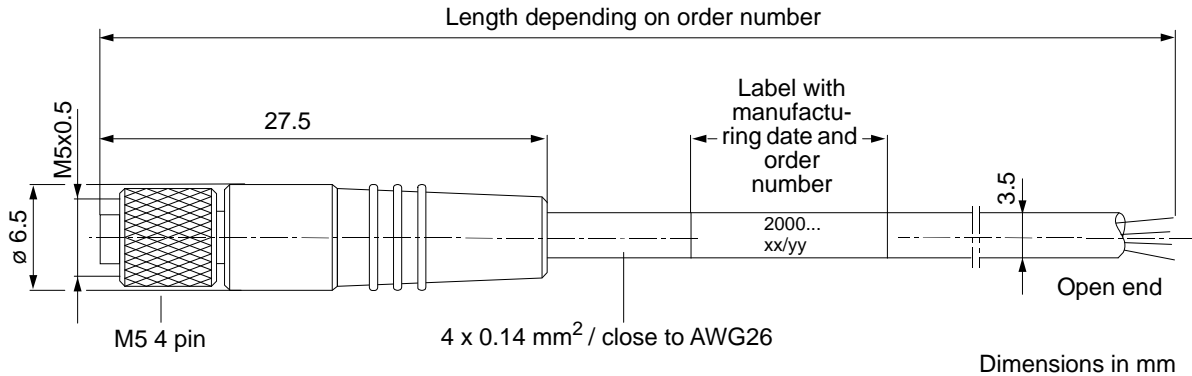



Fig. 1: Cable Overview

	<p>⚠ CAUTION</p>
	<p>Personal Injury Hazard and Risk of Damage to Camera in Case of Short Circuits</p> <p>Short circuits may cause an extreme rise in temperature of the camera's housing. This may damage the camera and may also lead to personal injuries, e.g., burns if touching the housing. In the worst case, the overheating may cause a fire.</p> <p>In order to prevent that, you should take additional measures to limit the current flowing through each individual wire during a short circuit. The maximum current allowed is 1 A. There are two ways how to do this:</p> <ul style="list-style-type: none"> ■ Using a fuse ■ Using a limited power supply

Wiring Information

Pin Number	Wire Color	Function
1	Brown	12 VDC Camera Power (12 VDC \pm 10 %)
2	White	General Purpose I/O (GPIO)
3	Blue	Camera Power Ground
4	Black	GPIO Ground

Table 2: Wiring Information

Physical Specifications

Camera-Side Connector	M5, 4 pin
Host-Side Connector	None, open end
Cable Cross-Section	4 x 0.14 mm ² (close to AWG 26)
Cable Diameter	3.5 mm
Wire Insulation	PVC
Outer Jacket	PUR
Minimum Bending Radius	10 x cable diameter (fixed installation)
Maximum Bending Cycles	None
Suitable for Drag Chain/Robotics Applications	No/No

Table 3: Physical Specifications

Electrical Specifications

Maximum Operating Voltage	See camera user's manual
Test Voltage	\geq 800 Vrms
Wire Resistance	\leq 148 Ω /km at 20 °C

Table 4: Electrical Specifications

Environmental Specifications

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

Plug Specifications

Durability	>100 mating cycles
Contact Resistance	≤3 mΩ
Contact Plating	Gold
Protection Rating	IP 67
Plug Insulation Material	PUR

Table 6: Plug Specifications

General Information

RoHS Compliant	Yes
Warranty	1 year

Table 7: General Information



The cables are intended for use with the cameras specified in [Table 1](#) only. If they are used as intended, the cables are covered by the low voltage directive. Therefore, even though the cables conform to CE standards, CE certification is not required.

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

Revision History

Doc. ID Number	Date	Changes
DG00111001000	19 Jul 2013	Initial release of this document.
DG00111002000	29 Aug 2017	Added warning about additional short circuit protection on page 1 . Removed information about 5 m cable.