

Specification

HDMI 2.1 8K AOC CABLE

Formerica Active Optical Cable
Up to 48GB



Ordering Information

CD3-AB1HH-1-005-FR1

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Length

Model Name	Category	Device Type	Data Rate	Voltage	Temperature	Connector Type	Length(m)
CD3-AB1HH-1-005-FR1	HDMI 2.1 AOC	AOC	48G	5V	0~50 °C	HDMI	5

■ Features

- HDMI 2.1 8K @ 60Hz 4:4:4 and full bandwidth of 48Gbps
- Supported features HDMI High Speed
 - HDR Dolby Vision
 - HDCP 2.3 EDID CEC
 - BT.2020 Deep Color
 - Audio Return Channel
- LED status indicator at TX & RX HDMI connectors, powered LED verifies connectivity
- Power TX: 0.5W RX: 0.5W; 5V DC
- Temperature / Humidity (0 °C – 50 °C) / 0% - 90% RH
- Fiber optic cable pull strength 60 pounds
- Bend radius 0.50" / 13mm
- HDMI connector dimension 0.35" x 0.73" x 1.54" / 9 x 18.5 x 39 mm
- Backward compatible to HDMI 2.0 and 1.4

■ Product Applications

- Digital Signage and TV Wall
- 8k, 4k TVs, Displays, Monitors, Switchers

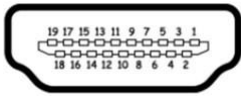
■ General

- HDMI 2.1
- Uncompressed 8K Resolution
- 24p 30p 60p Frame Rate Support
- Color Sampling up to 4:4:4
- HDR Support

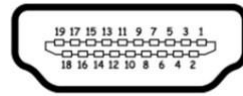
■ Performance Specifications

Connector	
Type(s)	HDMI-A / HDMI-A
Contacts	Gold plated, long-life design
Cable	
Outside Diameter	3 mm
Jacket Material	PVC
Mechanical	
Power Consumption	5VDC@55mA per side
Operating Temp	0 to 50 °C
Safety	
Safety	IEC 60825-1: 2014
EMI / EMC	EN 55032, EN 55035 FCC Part 15 Subpart B

■ Connector Pins



HDMI



HDMI

1	TMDS data 2+	11	TMDS clock shield
2	TMDS data 2 shield	12	TMDS clock-
3	TMDS data 2-	13	CEC
4	TMDS data 1+	14	No connection
5	TMDS data 1 shield	15	DDC clock
6	TMDS data 1-	16	DDC data
7	TMDS data 0+	17	Ground
8	TMDS data 0 shield	18	+5V power
9	TMDS data 0-	19	Hot plug detect
10	TMDS clock+		

■ HANDLING AND CARE

When removing the connector from a socket, do not pull on the cable itself. Pull the connector by its housing from the socket.

Do not remove the connector housing or cut into the cable.

Discard cables with mechanically damaged housings or jackets properly.

■ LASER SAFETY

Optical energy is contained within cable and the end-housings: there are no optical emissions exposed to the user.

This is a Class 1 Laser Product according to IEC 60825-1:2014 (Third Edition). This product complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 56, dated MAY 8, 2019. Use or modification of this device other than those specified herein may result in hazardous radiation. To meet laser safety requirement, the cable shall be used within environmental specifications. Tampering with or modifying the device will result in voiding of the product warranty. CAUTION: Do not cut optical cable. Viewing the cut fiber ends, especially with certain optical instruments (for example, eye loupes, magnifiers, and microscopes) may pose an eye hazard.

ATTENTION: Ne coupez pas le câble optique. La visualisation des extrémités des fibres coupées, en particulier avec certains instruments optiques (par exemple, les loupes oculaires, les loupes et les microscopes) peut présenter un danger pour les yeux.

■ Contact Information

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■ Revision History

Date	Version	Description
03/18/2022	1.0	Preliminary Release
09/15/2022	2.0	Part number update