

# HDMI 2.0 4K HYBRID CABLE

## Clerlinks Hybrid Active Optical Cables



Hybrid AOC cabling technology uses copper wires and optical fibers to join the electrical connectors on each end of the cable. The result is improved speed and bandwidth transmission distances with a thinner cable that is flexible and lightweight. Clearlinks HDMI AOC cables are designed for high-end professional 4K video with superior performance while providing a reliable plug-and-play user experience.

### FEATURES

- HDMI 2.0 4K @60Hz 4:4:4 and full bandwidth of 18Gbps
- Variety of pre-assembled cable lengths available, up to 100m (300 ft.)
- Patented AOC hybrid-cable with only 5 mm bend radius
- Supports ARC, CEC, and HDCP
- No external power supply required
- EMI (electromagnetic interference) protection
- Made in Vietnam or Thailand



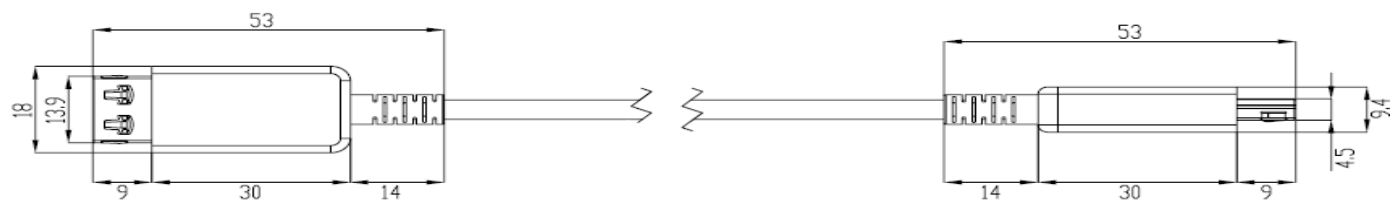
### SPECIFICATIONS

| Connectors       |                               | Mechanical        |                       |
|------------------|-------------------------------|-------------------|-----------------------|
| Type(s)          | HDMI-A / HDMI-A               | Power Consumption | <0.25 W both sides    |
| Contacts         | Gold plated, long-life design | Operating Temp    | 0 to 50C              |
| Cable            |                               | Safety            |                       |
| Outside Diameter | 4.5 mm                        | Device            | CE (LS Series)        |
| Jacket Material  | PVC, CMR / CMP, CPR Eca       | EMI / EMC         | FCC Class B, CISPR 32 |

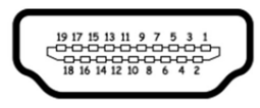
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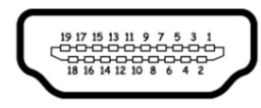
### DIMENSIONS (mm)



### CONNECTOR PINS



HDMI



HDMI

| Pin# | Signal             | Pin# | Signal            |
|------|--------------------|------|-------------------|
| 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+        |      |                   |

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### 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.

### EYE SAFETY

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

**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.

This product is classified as a Class 1 Laser product in accordance with IEC 60825-1:1993+A1+A2 and complies with 21CFR 1040.10 and 1040.11 except for deviations pursuant to laser notice NO. 50, dated 24-Jun-2007. Use or modification of this device other than those specified herein may result in hazardous radiation. To meet laser safety requirements the cable shall be used within environmental specifications. Tampering with or modifying the device will result in voiding of the product warranty.

INVISIBLE LASER RADIATION

CLASS 1 LASER PRODUCT

840-860nm, 700uW

### LASER EMISSION DATA

|   |        |
|---|--------|
| Wavelength  | 850 nm |
| Accessible Emission Limit<br>(as defined by IEC: 7 mm aperture at 70 mm distance) | 0      |
| Beam Divergence (full angle)  | N/A    |

### PART NUMBERS

| Description                                      | Part Number       |
|--|-------------------|
| HDMI 2.0 18G 4K, AOC, Plenum Jacket, Male / Male | HD2.0-A-A-XXX-P-G |

*XXX= length in meters*

Clearlinks AOC products carry a 1-year warranty