

## HDMI 2.1 Active optical cable – HDMI A male - HDMI A male - HighFlex™ - Interchangeable connector

### Highlights:

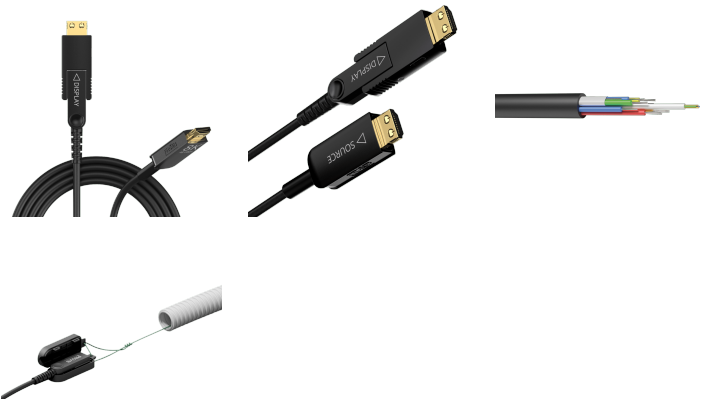
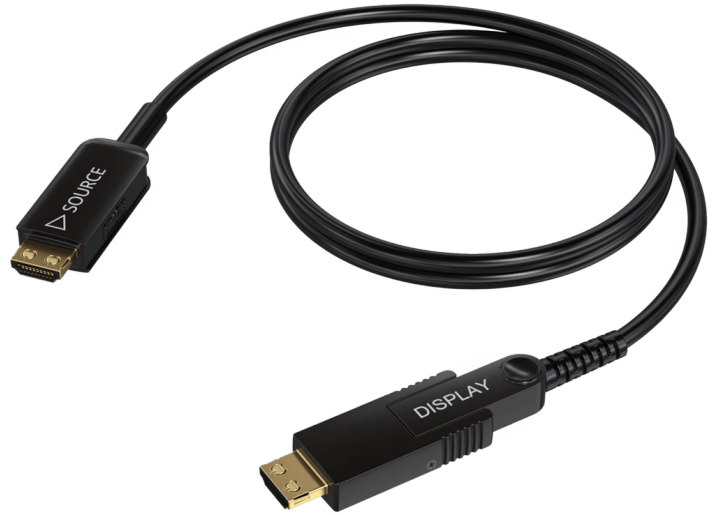
- Resolutions up to 8K (7680 x 4320p) 4:4:4 at 60 Hz
- No electronic interference
- 1 x exchangeable connector
- Compatible with all current and emerging HDR standards
- Bandwidth of 48 Gbps via OM3 optical fiber technology
- Backward compatible with HDMI 2.0 and HDMI 1.4
- Semi-Lock™ feature with higher withdrawal force

### Product information:

The CLV315A is an active optical HDMI 2.1 cable, designed for transmission of the next generation of 8K video content. It is able to transmit resolutions up to 8K (7680 x 4320p) 4:4:4 at 60 Hz with a bandwidth of 48 Gbps via OM3 optical fiber technology, eliminating the possibility of electronic interference. It is backwards compatible with HDMI 2.0 and HDMI 1.4, guaranteeing an optimal and future proof solution for any kind of installation. The fixed and detachable HDMI connector enables you to easily detach and reattach this connector. This way the cable can be fitted through holes and straight tubes with diameters as small as 25 mm.

Ready for future HDCP 2.3 content encryption, compatible with all current and emerging HDR standards (HLG, HDR-10 and HDR-10+, Dolby Vision, Perceptual Quantizer and SL-HDR-1) and compatible with eARC HD audio standard.

The Semi-Lock™ feature of the HDMI connector increases the withdrawal force of the connector and avoids loose or unstable connections of the HDMI connectors, reducing unwanted signal loss or disconnections.



### Certification:



## Properties:

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## Product Features:

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|             |          |                |
|-------------|----------|----------------|
| Series      |          | Classic Series |
| Application |          | AV & IT        |
| Accessories | Included | COP110         |
|             | Optional | COP140         |

## Physical Characteristics:

|                    |                        |                                       |
|--------------------|------------------------|---------------------------------------|
| Strength test      | Bending radius         | 20 mm                                 |
|                    | Tensile strength test  | 25 kg                                 |
|                    | Connector bending test | > 10000 cycles                        |
| Inner conductor    | Material               | TC 11 x 0.08 mm (Ø) (OFC)             |
|                    |                        | TC 19 x 0.08 mm (Ø) (OFC)             |
|                    |                        | TC 30 x 0.08 mm (Ø) (OFC)             |
|                    |                        | TC 41 x 0.08 mm (Ø) (OFC)             |
|                    |                        | 50/125 OM3 / Fiber (4x)               |
| Section            | 0.05 mm <sup>2</sup>   |                                       |
|                    | 0.08 mm <sup>2</sup>   |                                       |
|                    | 0.14 mm <sup>2</sup>   |                                       |
|                    | 0.25 mm <sup>2</sup>   |                                       |
|                    | Number of conductors   | 12                                    |
| Insulation         | Material               | PE 0.9 mm (Ø)                         |
|                    |                        | PE 1 mm (Ø)                           |
| Conductor twisting |                        | Yes                                   |
| Shielding          | Aluminium foil         | Al-mylar, 100% coverage - 25% Overlap |
|                    | Drain wire             | TC 11 x 0.08 mm (Ø) (OFC)             |
| Overall shielding  | Aluminium foil         | Al-mylar, 100% coverage - 25% Overlap |
| Outer jacket       | Material               | PVC 4.5 mm (Ø)                        |
|                    | Colours                | Black                                 |

## Supported Features:

|                           |                                    |   |
|---------------------------|------------------------------------|---|
| Transmission              | Transmission encoding              | Uncompressed AOC  |
|                           | End to end latency                 | 10 $\mu$ s  |
|                           | Maximum transmission bit rate      | 48 Gbps (4-core – 12 Gbps per core)                                       |
|                           | Orientation                        | Uni-directional   |
|                           | Connectors                         | 2 x HDMI Type A, 19-pin male A type with Semi-Lock™                       |
| Video                     | Supported video resolutions        | 1920 x 1080p @ 240Hz  |
|                           |                                    | 2560 x 1440p @ 240Hz  |
|                           |                                    | 3840 x 2160p @ 144Hz  |
|                           |                                    | 5120 x 2880p @ 60Hz   |
|                           |                                    | 7680 x 4320p @ 60Hz   |
|                           | Supported standards                | DCI, Static HDR, HDR10+, Dolby Vision, HLG, SL-HDR1, PQ, BT.2020, BT.2100 |
| Audio                     | Audio formats                      | 2 Ch PCM, Multichannel LPCM, DTS-X, Dolby Atmos                           |
|                           | Maximum sampling rate              | 192 kHz   |
|                           | Maximum audio channels             | 32  |
|                           | Enhanced Audio Return Channel      | Supported   |
| Communication and control | HDCP                               | Pass-through, 2.3 Supported   |
|                           | EDID                               | Pass-through, RX > TX   |
|                           | Ethernet                           | 100 Mbps supported  |
|                           | Consumer electronics control (CEC) | Bidirectional supported   |
|                           | Auto Low Latency Mode (ALLM)       | Supported   |
|                           | Variable refresh rate (VRR)        | Supported   |
| Power                     | Power supply                       | Passive, 4.5V ~ 5.5V VCC (from connected source)                          |
|                           | Max power consumption              | 250 mW  |

## Variants:

- CLV315A/10 - 10 meter
- CLV315A/15 - 15 meter
- CLV315A/20 - 20 meter
- CLV315A/30 - 30 meter
- CLV315A/40 - 40 meter