

# CLV310A

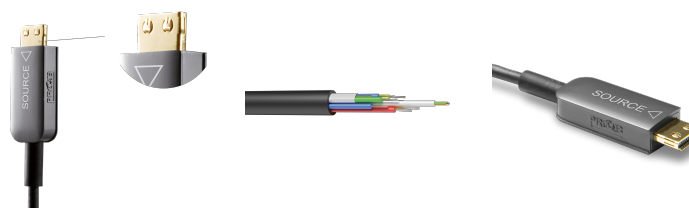
HDMI 2.1 Active optical cable – HDMI A male - HDMI A male - HighFlex™

## Product information:

The CLV310A 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 backward compatible with HDMI 2.0 and HDMI 1.4, guaranteeing an optimal and future proof solution for any kind of installation.

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:



## 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 mm²
			0.08 mm²
			0.14 mm²
			0.25 mm²
	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
Video	Connectors	2 x HDMI Type A, 19-pin male A type with Semi-Lock™
	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:

- CLV310A/10 - 10 meter
- CLV310A/15 - 15 meter
- CLV310A/20 - 20 meter