DIGITUS® HDMI AOC fiber optic cable armored, UHD 8K, 50 m

AK-330128-500-S

EAN 4016032508694



HDMI AOC Fiber Optic Cable armored, Type A M/M, 50m, Ultra HD, 8K@60 Hz, gold, bl

This armored HDMI 2.1 AOC cable is the reliable solution for ultra HD video and audio transmission in 8K over long distances - where classic passive HDMI cables reach their limits. Thanks to the combination of fiber optic and copper conductors, the cable offers the highest signal quality with maximum interference immunity (EMI-resistant) and guarantees stable transmission with up to 48 Gbps bandwidth and resolutions up to 8K@60Hz and 4K@120Hz. The robust construction with metal armoring protects the cable from mechanical stress during installation and operation. The small outer diameter of only approx. 5.9 mm enables simple and flexible installation - ideal for professional AV installations (e.g. conference rooms, digital signage, home cinema setups). Modern picture standards such as HDR, HDR10, HDR10+, Dolby Vision and HLG as well as high-quality audio formats such as Dolby TrueHD and DTS-HD Master Audio are supported. Thanks to Plug & Play, no additional driver installation is required - simply connect and immediately enjoy the highest picture quality. Important: The cable is directional. Please connect the "Source" plug to the source device and the "Display" plug to the output device.

8K signal quality over 50 meters - loss-free, low-interference and optimally protected for demanding installations thanks to metal armoring.

- HDMI 2.1 compatible Active Optical Cable (AOC)
- Hybrid structure: glass fiber + copper conductor (OM2 glass fiber 50/125 µm, 4-wire)
- Resolution up to 8K (7680 × 4320) @ 60 Hz (UHD-2)
- Supports 4K@144Hz (YUV 4:4:4, up to 12 bpc)
- Supports 8K@60Hz and 8K@30Hz
- 3D support; downwards compatible with lower resolutions (e.g. 4K/1080p)
- Bandwidth up to 48 Gbps (for modern AV setups)
- HDR (High Dynamic Range) / HDR10 / HDR10+ / Dolby Vision / HLG
- YUV 4:4:4 color space subsampling with 8-, 10- and 12-bit color depth
- BT.2020 / Rec.2020 pass-through support
- Audio Return Channel (ARC)
- Supports Consumer Electronic Control (CEC)
- Lip sync function for audio/video synchronization
- Gaming features: VRR / ALLM / QFT / QMS
- 21:9 / Cinemascope support
- EDID support (EDID 1.3 / 1.4 / 2.0)
- HEC (HDMI Ethernet Channel)
- Audio formats: LPCM (8-channel, 192 kHz, 24-bit), Dolby TrueHD, DSD and DTS-HD Master Audio capable
- Compatible with DVD-Audio, Blu-ray Disc and HD-DVD
- HDCP 2.3 (additionally HDCP 2.2 / 1.4 supported)
- Max. Tensile force (Tensile): 200 N
- Crush resistance: 300 N
- Metal reinforcement + nylon threads for robust installation
- Minimum bending radius: 59 mm
- Outer diameter: approx. 5.9 mm
- Cable sheath: TPU (VW-1)
- Operating temperature: 0-40°C, operating humidity: 20-80 % rH (non-condensing)
- Storage temperature: -20-60°C, storage humidity: 10-90 % rH (non-condensing)
- Plug dimensions (L/W/H): 44.8 × 20 × 12.2 mm (±0.2 mm)
- Silicon Line optoelectronic converter chip
- Directional: Source → Display (do not swap)
- Installation note: recommended tensile load during installation max. 10 kg, do not bend/knot/twist; do not hit/crush plug; hold on to plug housing when plugging in/unplugging

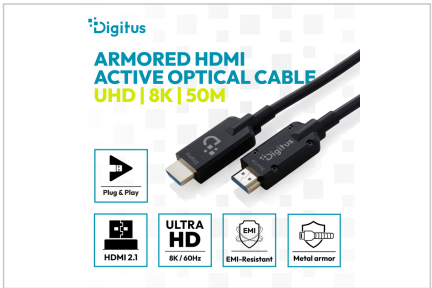
Attributes

- Color cable: black
- Connector 1: HDMI type A, plug
- Connector 2: HDMI type A, plug
- Connector surface: gold-plated
- Ferrite filter: none
- HDMI Standard: Ultra High Speed HDMI
- HDTV Standard: Ultra HD 8K
- Hoods: Metallic housing
- Resolution max.: 7680 × 4320 Pixel, 60Hz
- Length: 50 m
- AOC - Active Optical Cable: no

Logistics						
	Number (pcs)	Weight (kg)	Depth (cm)	Width (cm)	Height (cm)	cm³
Packaging Unit Carton	4	15.30	29.30	32.00	57.50	53,912.00
Packaging Unit Inside	1	3.83	0.00	0.00	0.00	0.00
Packaging Unit Single	1	3.83	27.70	27.00	14.50	10,844.50
Net single without Packaging	1	2.70	25.00	25.00	6.50	0.00

More images:



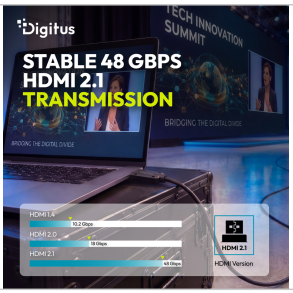


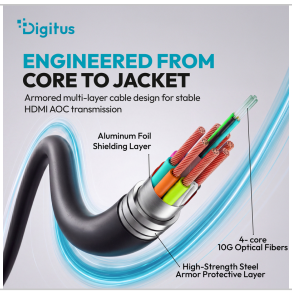


















Safety notes

- When plugging and unplugging the cable, only grasp the plug and do not pull directly on the cable.
- Cables must not be kinked sharply or bent at tight angles, as this can damage the inner wires and lead to failures.

- Make sure that the cables are not under tensile load, as this can damage the insulation and the wires inside the cable.
- Ensure that cables are not laid in areas where they can be easily damaged mechanically.
- Cables should not be used in environments with extremely high or very low temperatures. Observe the product information on the maximum operating temperature of the cable
- Check cables regularly for visible damage such as cracks, kinks or signs of wear. Defective cables should be replaced immediately to avoid failures, short circuits or even electric shocks.

EU responsible person

EU based economic operator ensuring the product complies with the required regulations.

ASSMANN Electronic GmbH
Auf dem Schüffel 3
Lüdenscheid, Germany
https://www.assmann.com
info@assmann.com