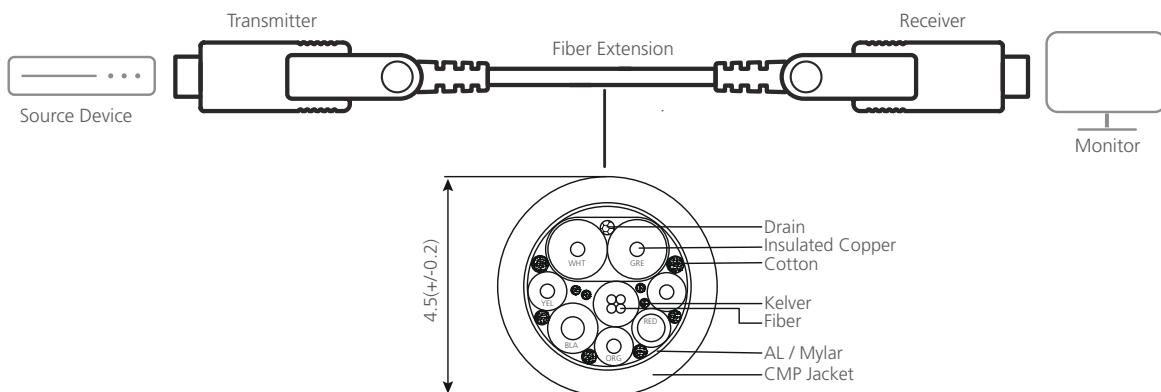


10M / 20M / 30M / 60M / 100M True 4K HDMI Active Optical Cable

VE7831A / VE7832A / VE7833A / VE7834A / VE7835A

ATEN VE7831A / VE7832A / VE7833A / VE7834A / VE7835A optical cables utilize AOC technology that enable conversion between input signals and output signals for optimum high bandwidth data transmissions. The EMI-resistant optical cables are available in 10, 20, 30, 60, and 100 m with full support of True 4K resolutions. They are fully compliant with HDCP 2.2 standards and meet HDMI specifications including 3D, deep color, and data rates up to 18 Gbps. Supporting Dolby True HD and DTS-HD Master Audio, these optical cables guarantee lossless audio signal transmissions. This cable series comes with an HDMI Ethernet Channel (HEC) to combine audio, video, and data streams into a cable, enabling Internet connection sharing and IP-based applications over HDMI. Plus, it supports Audio Return Channel (ARC), allowing audio signal to travel to and from the TV and audio system, thereby reducing the number of cables between the television and external Home Theatre System or soundbar.

Engineered to meet the latest trend of integrator-friendly design, the VE7831A / VE7832A / VE7833A / VE7834A / VE7835A optical cables feature pluggable gender and gold-plated connectors. Therefore, the cables are ideal solutions for extending the reach of digital signages in a wide range of settings, such as traffic stations, shopping centers, and hospital facilities.



Features

- HDMI (3D, Deep Color, 4K, HDR, HEC, ARC) ; HDCP 2.2 compliant
- Extends True 4K signals 4096 x 2160 @ 60 Hz (4:4:4) up to 100 m
- Supports HDR
- Supports HDMI Ethernet Channel (HEC) – combines audio, video, and data streams into a cable to simplify the set-up
- Supports Audio Return Channel (ARC) – connects TV and audio system, eliminating the need for an additional cable
- Reduced EMI and RFI for lower noise interference
- Supports multi audio channel – Dolby TrueHD and DTS-HD Master Audio
- Robust cable pulling strength (Max. 10 kg) and compression load resistance (Max. 50 kg)
- Additional power source is available via Micro USB cable for better compatibility
- Gold-plated connectors for reliable transmissions
- Compliant with International Flame Retardant Standards : UL CMP-OF (Plenum)
- Pluggable gender for easy installation
- Plug-and-play

Highlights

True 4K / 4K HDR	VE7831A / VE7832A / VE7833A / VE7834A / VE7835A are ATEN's premiere True 4K HDMI Active Optical Cables. Without any compression, these cables can extend lossless True 4K signals up to 100 m. Whether designing Pro AV installations for the aviation industry, military, medical, or other applications, ATEN True 4K HDMI Active Optical Cables deliver the ideal solution to make projects successful.
Supports HEC and ARC	Thanks to the support for HEC and ARC, these cables enable the transfer of Internet signal between connected devices while allowing audio signal transmission between the TV and external audio system.
Pluggable Design	With detachable HDMI connectors, the cable can effortlessly run through a conduit and any other tight spaces, making installation much easier.
Gold-plated Connector	To prevent corrosion on the connectors, ATEN VE7831A / VE7832A / VE7833A / VE7834A / VE7835A cables are equipped with gold-plated connectors.
Reduced EMI & RFI	ATEN VE7831A / VE7832A / VE7833A / VE7834A / VE7835A cables reduce the risk of EMI (electromagnetic interference) and RFI (radio-frequency interference), guaranteeing reliable signal transmission.
Better Compatibility	To increase compatibility, an additional power source is available via Micro USB cables from both sources and displays.

Specifications

	VE7831A	VE7832A	VE7833A	VE7834A	VE7835A
Cable Length	10 m	20 m	30 m	60 m	100 m
Cable Type	Cable Type: Hybrid cable with optical fiber and copper wire HDMI Standards: High Speed HDMI Cable				
Video Input					
Interfaces	1 x HDMI 19-pin Type-A Male (gold-plated) pluggable connector 1 x HDMI Type-D Male				
Video Output					
Interfaces	1 x HDMI 19-pin Type-A Male (gold-plated) pluggable connector 1 x HDMI Type-D Male				
Video					
Max. Data Rate	18 Gbps (6 Gbps per Channel)				
Max. Pixel Clock	600 MHz (Max.)				
Compliance	HDMI (3D, Deep Color, 4K, HDR, HEC, ARC) HDCP 2.2 Color sub-sampling: 4:4:4 / 4:2:2 / 4:2:0 Color Depth: 30 / 36 / 48 bit				
Max. Resolutions / Distance	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4) / 10 m	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4) / 20 m	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4) / 30 m	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4) / 60 m	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4) / 100 m
Communication					
Signals	TMDS / HDCP 2.2 / EDID / CEC				
Audio					
Input	PCM 8-channel, Dolby Digital True HD, DTS-HD Master Audio				
Output	PCM 8-channel, Dolby Digital True HD, DTS-HD Master Audio				
Conductor					
Construction	7 x Tinned Copper Wire 4 x OM3 Optical Fiber (50/125um)				
Jacketed					
Material	UL Plenum (CMP-OF)				
Certifications					
Certifications	Safety and Emission: CE / FCC / RoHS2 / UL CMP-OF				
Power Consumption	DC5V:0.25W	DC5V:0.25W	DC5V:0.25W	DC5V:0.25W	DC5V:0.25W
Power (Optional)	Optional power source: Micro USB to USB cable (100 cm) 5V, 250mW (Max)				
Notification	Bend Radius: 20 mm (Min.) Connector Pull Strength: Max. 10 kg (100N) Compression Load Resistance: Max. 50 kg (500N) Shielding & Filling: AL Mylar Shielding / Kevlar Filling				
Environmental					
Operating Temperature	0 – 50 °C				
Storage Temperature	-20 – 70 °C				
Humidity	0 - 85 % RH, Non-Condensing				
Physical Properties					
Housing	Connector Case: Zinc-Alloy				
Weight	0.30 kg	0.55 kg	0.80 kg	1.62 kg	2.70 kg
Cable Outer Dimension	Cable Outer Diameter: 4.5 mm (± 0.2 mm)				

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