

UE3415F

15 m Ultra HD USB-C Active Optical Cable



DP 2.1 USB-C Active Optical Cable for Data, Power, and Video

10 m / 15 m Ultra HD USB-C Active Optical Cable

UE3410F / UE3415F

The [UE3410E](#) (10 m) / [UE3415F](#) (15 m) Ultra HD USB-C DisplayPort 2.1 Active Optical Cable is designed for high-performance video conferencing, professional presentations, and connectivity with various USB-C peripherals such as tablets, monitors, and camera devices. Supporting DisplayPort 2.1 over USB-C, it ensures stable video transmission and ultra-high USB data transfer rate (up to 10 Gbps), adapting to connected device specifications. With strong EMI/RFI resistance and active optical design, it guarantees rapid, long-distance transmission without signal degradation.

Ideal for commercial, educational, and healthcare applications, this cable delivers reliable performance across a wide range of devices, ensuring pristine visuals and smooth plug-and-play connectivity.



Full-featured USB-C Active Optical Cable

The full-featured USB-C Active Optical Cable supports high-bandwidth USB-C 3.2 Gen 2 data transfer, DisplayPort 2.1 video streaming, and power delivery.



Adaptive DP Lane Switching for Optimal USB and Display Output

Whether it's 4-lane DP 2.1 UHBR10 (Ultra High Bit Rate 10) with USB 2.0 or 2-lane DP 1.4 with USB 3.2 Gen 2 at 10 Gbps, the connected device intelligently selects the optimal DisplayPort mode to ensure smooth, high-speed transmission and maximum compatibility for the intended application.



8K

Optimal Display Ou
4-lane DP 2.1 Ultra High



Opti
2-lane DP 1.4 w

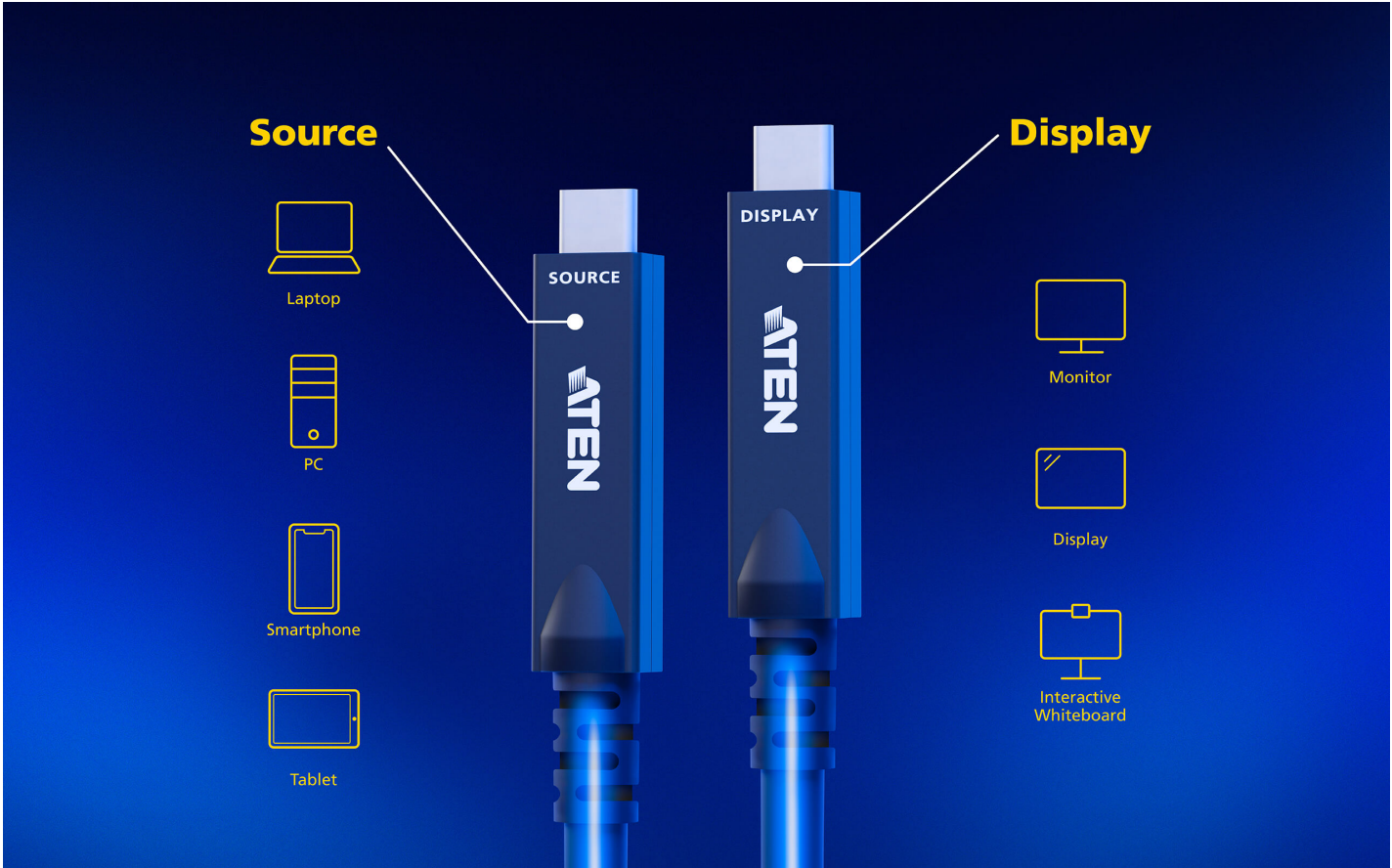


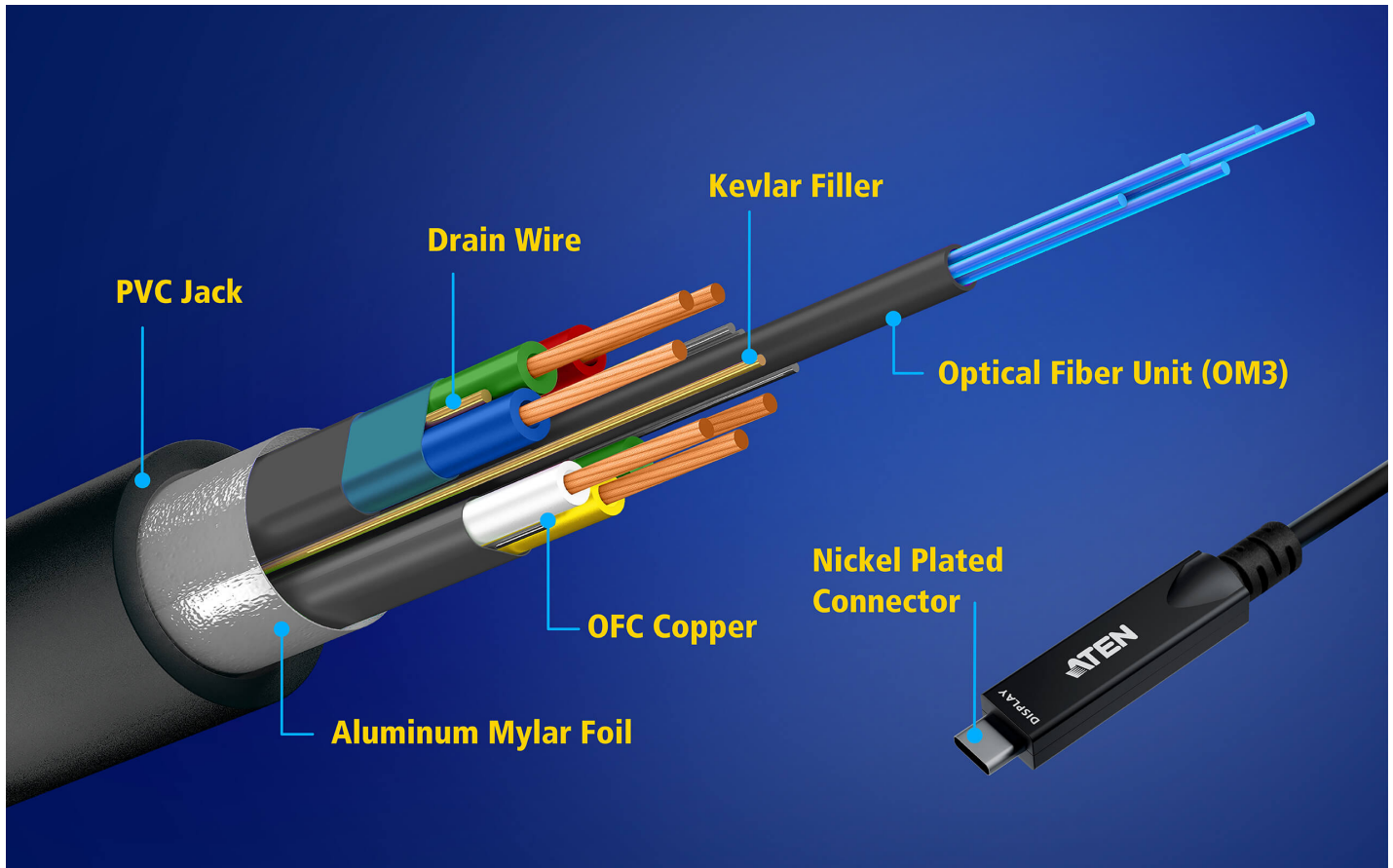
Up to 60W Power Delivery

The capacity to supply power up to 60W to modern devices and peripherals ensures all-around, hassle-free operation.

Wide Compatibility with Assorted USB-C Devices

The USB-C Active Optical Cables supply a smooth link-up between source and display, ensuring exceptional display of these USB-C supported devices.





USB-C Active Optical Cable vs HDMI Active Optical Cable



	USB-C Active Optical Cable (UE3410F / UE3415F)	HDMI Active Optical Cable
Data Transfer	✓ Bidirectional	✗
Video Transmission	✓ Unidirectional	✓ Unidirectional
Power Delivery	✓	✗

Applications

- 1.
- 2.
- 3.
- 4.



Educational



Commercial



Healthcare

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Talk to Our Experts

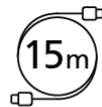
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USB 3.2 Gen 2



Power Delivery



Long Distance
Transfer

Features

The UE3415F is a USB-C full-featured active optical cable that handles high-speed data and video transmission and up to 60W power delivery for a distance of up to 15 m simultaneously. It supports two operating modes – either 2-lane (DP 1.4 + USB 3.2 Gen 2 at 10 Gbps) or 4-lane (DP 2.1 UHBR10 + USB 2.0 at 480 Mbps) up to 4K @ 60 Hz. Cable construction using premium materials brings high resistance to EMI / RFI, making it suitable not just for educational and conference scenarios, but also sensitive applications in medical industry.

- Extends distance between PCs and USB-C peripherals up to 15 m
- Supports 60W Power Delivery
- Supports either 4-lane DP2.1 UHBR10 + USB 2.0 (480 Mbps) or 2-lane DP 1.4 + USB 3.2 Gen 2 (10 Gbps) depending on the requirements of the connected device
- Supports resolutions up to 4K@60Hz (without HDR or DSC)
- Backward compatible with USB 2.0 / 1.1
- Highly resistant to EMI and RFI due to high quality material construction
- Plug-and-play

Specification

Connectors	
USB Port	1 x USB-C Male
Downstream	1 x USB-C Male
Cable Type	Hybrid type with optical fiber and copper wire
Cable Length	15 m
Data Rate	Up to 10 Gbps
Power Consumption	DC5V:2WBTU/h Note: <ul style="list-style-type: none">● The measurement in Watts indicates the typical power consumption of the device with no external loading.● The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.
Environmental	
Operating Temperature	0~40°C
Storage Temperature	-20~60°C
Humidity	10-80% RH
Jacketed	
Material	PVC
Color	Black
Physical Properties	
Housing	Connector Case: Zinc-Alloy
Weight	1.10 kg (2.42 lb)
Note	1. Make sure to plug the SOURCE connector to the output port of a source device and the DISPLAY connector to the input port of a display device. 2. Bending radius of optical cable must exceed 65 mm when the conduit turns direction. Bending or intermediate splicing is absolutely not allowed. 3. Make sure that the two connectors on the cable are not heavily pressed or pressured. They are very fragile. Please handle with care. 4. When laying optical cables, special caution must be taken that the pulling force is within the tolerance range (<50kg). Lay the cable in even speeds to avoid any impact or sudden stop. 5. When laying optical cables, make sure the speed is controlled not to exceed 20m/minute.

Diagram

