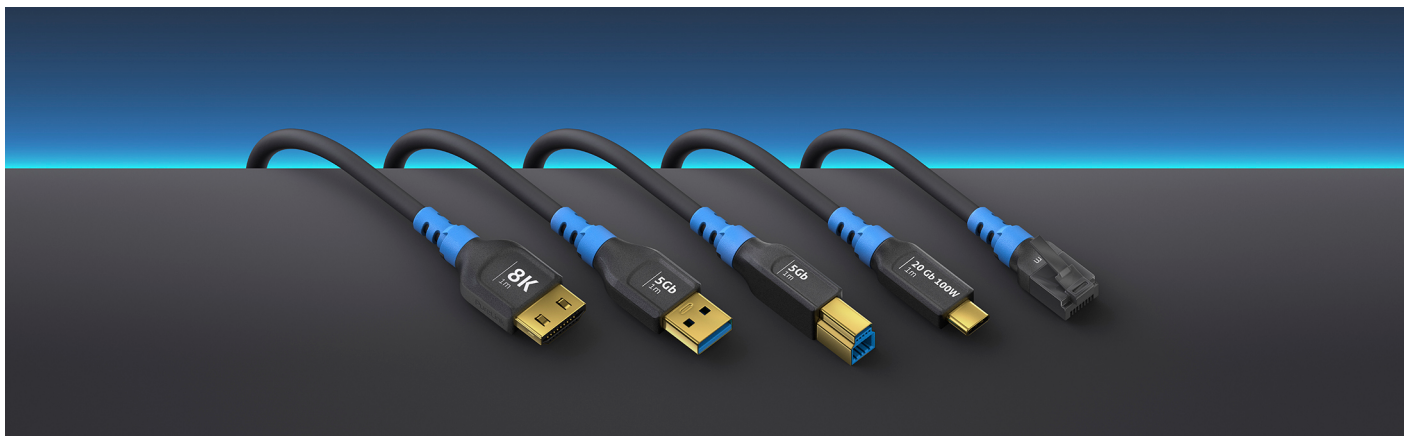




PureLink FlexInstall Series: Ultra-High-Speed HDMI 8K Active Optical Cable

FI-H150 – Active Optical HDMI 2.1 Cable: 8K Signal Transmission for Flexible AV Installations

Pre-assembled with blue strain relief.

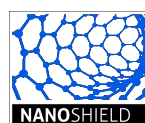
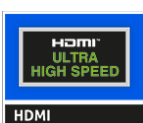
FlexInstall AOC cables (FI-H150) are not ARC/eARC compatible

The FI-H150 is an active optical HDMI cable engineered for high-bandwidth AV environments requiring reliable 8K signal delivery over extended distances. Its hybrid construction combines optical fibres for data with copper conductors for power, supporting advanced HDMI 2.1 features such as HDR, DSC, and HDCP2.2. Triple shielding and graphene nano layers minimise electromagnetic interference, while the ultra-flexible cable structure and SLS (Secure-Locking-System) connector facilitate integration in confined spaces, racks, or dynamic meeting room setups. Function coding via coloured strain reliefs streamlines identification during multi-cable deployments in control rooms or signage installations.

- **HDMI 2.1 – 48Gbps Bandwidth:** Supports signal transmission up to 48Gbps, enabling 8K UltraHD-2 (7680x4320) at 60Hz, 3D video, HDR, DSC, and full compliance with HEAC, CEC, EDID, and HDCP2.2. This ensures compatibility with current and future-generation AV sources and displays in professional environments.
- **Ultra-Flexible Cable and SLS Connector:** The 25.75mm minimum bend radius and SLS-equipped connector allow for precise routing in dense racks, furniture, or podiums. This flexibility supports installations where cable management and tight-space integration are critical for system reliability and maintenance.
- **HDMI-A to HDMI-A with Function Coding:** Both cable ends feature HDMI-A male connectors and blue strain reliefs, with ten optional colour variants available. This enables clear cable identification and streamlined troubleshooting in multi-cable AV setups, such as control rooms or signage arrays.
- **High-Purity Copper and Graphene Shielding:** Utilising high-purity OFC copper conductors and graphene nano shielding within a 5.0mm outer diameter, the cable achieves low signal loss and robust EMI suppression. Triple shielding further enhances signal integrity, especially in electrically noisy or high-density AV environments.
- **Hybrid Optical-Copper Construction:** Data transmission is handled via optical fibres, while copper conductors supply power, combining the benefits of low-latency signal delivery with the reliability of powered HDMI connections. This hybrid approach supports stable operation in demanding professional AV applications.

Reliable 8K HDMI Connectivity for Professional AV

FI-H150 delivers high-bandwidth signal integrity, flexible cable routing, and robust shielding, supporting seamless 8K video integration in meeting rooms, workspaces, and control environments. By combining hybrid optical-copper architecture with advanced shielding and function coding, this cable enables efficient deployment and long-term reliability for AV professionals managing complex installations.



Features

- HDMI 2.1 – 48Gbps for resolutions up to 8K UltraHD-2 60Hz

- Ultra-flexible cable (25.75mm bend radius) and connector with Secure-Locking-System
- HDMI-A to HDMI-A with blue strain relief (10 optional colours available)
- High-purity copper conductors and graphene nano shielding - Ø 5.0mm
- Hybrid cable – fiber for data; copper for power



Specifications

Cable	
Unidirectional	Yes
Cable jacket material	Polyvinyl Chloride (PVC)
Cable standard	HDMI 2.1
Cable fire class	UL VW-1
Cable length detection	Yes
Cable shape	Round
Cable diameter (mm)	5 mm
Cable jacket characteristics	Ultra flexible, Ultra slim, Smooth, Soft
Shield materials	Graphene, Aluminium foil + Mylar layer
Number of shielding layers	2
Additional cable components	Cotton filler material
Conductor material	Fibre optic/Copper
Minimum bending radius (flexible use)(mm)	25.75 mm
Minimum bending radius (fixed installation)(mm)	25.75 mm

Connection	
Connector 1 standard	HDMI
Connector 1	HDMI-A (Standard)
Connector 1 gender	Male connector
Connector 1 form factor	Straight
Connector 1 lockable	Secure Lock System (SLS)
Connector 1 pinout	19+1 (HDMI)
Connector 2 standard	HDMI
Connector 2	HDMI-A (Standard)
Connector 2 gender	Male connector
Connector 2 form factor	Straight
Connector 2 lockable	Secure Lock System (SLS)
Connector 2 pinout	19+1 (HDMI)
Connector housing material	Polyvinyl Chloride (PVC)
Connector material	Gold-plated
Connector contacts plating	Gold-plated
Connector shielding	Yes
Connector shield material	Tin

Features	
High Dynamic Range (HDR) technology	Dolby Vision, Dolby Vision IQ, High Dynamic Range (HDR), High Dynamic Range 10 (HDR10), Hybrid Log-Gamma (HLG), Hybrid Log-Gamma Pro (HLG Pro)
Colour space	RGB, YCBCR (4:2:0), YCBCR (4:2:2), YCBCR (4:4:4)
Colour depth	16-bit
Other features	2x Velcro cable tie, 2x removable strain relief (blue)

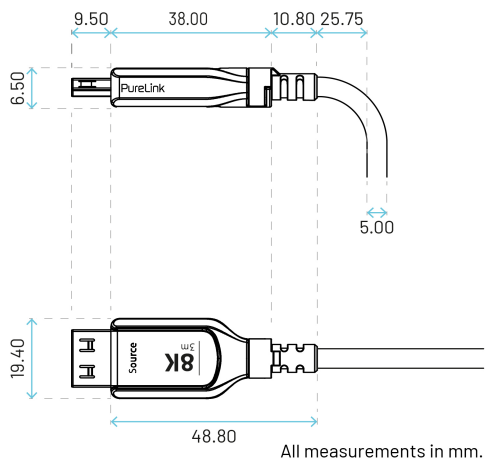
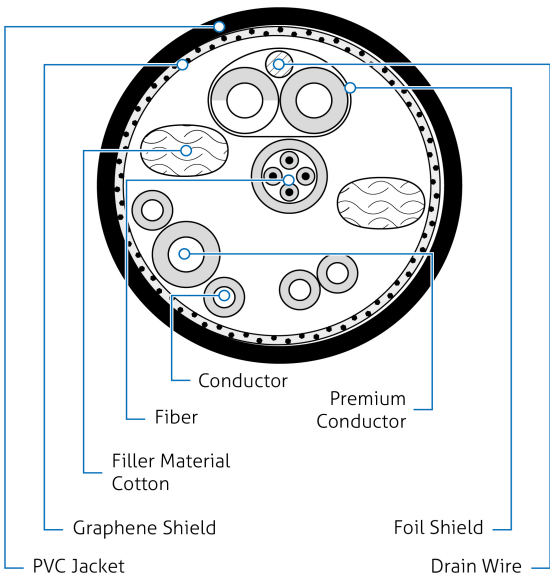
Audio	
Supported digital audio channels (uncompressed)	2.0, 2.1, 32, 5.1, 7.1

HDMI	
HDMI version	2.1a
Maximum bandwidth (HDMI)	48Gbps
Maximum resolution (HDMI)	7680×4320p
HDCP version	1.4, 2.0, 2.2, 2.3
Consumer Electronics Control (CEC) support	Yes
Audio Return Channel (ARC)	No
Enhanced Audio Return Channel (eARC)	No
Extended display identification data (EDID)	Yes
Dolby technologies	Dolby Atmos, Dolby Digital, Dolby Digital DTS, Dolby Digital Plus, Dolby TrueHD, Dolby Vision, DTS, DTS:X, DTS-HD, DTS-HD Master Audio, DTS Neo:X, DTS TruSurround

General Information	
Certification	RoHS, CE



All measurements in mm.



All measurements in mm.

Overview

Parent	Item-No.	Cable length
FI-H150	FI-H150-030	3.00 m
	FI-H150-030-PCK	-
	FI-H150-050	5.00 m
	FI-H150-050-PCK	-
	FI-H150-075	7.50 m
	FI-H150-075-PCK	-
	FI-H150-100	10.00 m
	FI-H150-100-PCK	-
	FI-H150-125	12.50 m
	FI-H150-125-PCK	-
	FI-H150-150	15.00 m
	FI-H150-150-PCK	-
	FI-H150-200	20.00 m

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