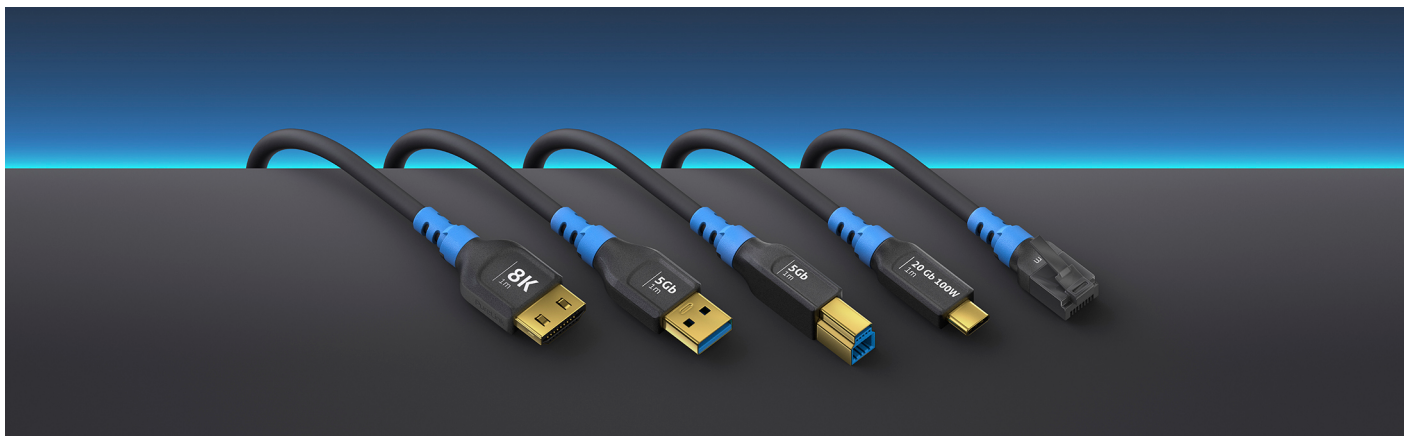




PureLink FlexInstall Series: Ultra High Speed HDMI 8K Active Optical Cable

Flexible Ultra High Speed HDMI 2.1 Fiber Optic Cable: Reliable Connectivity and High-Quality Performance

Pre-assembled with blue strain relief.

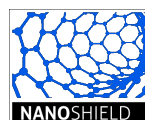
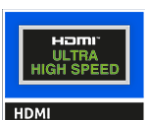
FlexInstall AOC cables (FI-H150) are not ARC/eARC compatible

The FlexInstall Ultra High Speed HDMI 2.1 Fiber Optic Cable integrates an active optical hybrid architecture, combining optical fibres for high-speed data with copper conductors for power delivery. Triple-layer shielding and graphene nano technology minimise electromagnetic interference, supporting reliable operation in electrically dense AV environments. Precision-machined HDMI-A connectors and a colour-coded strain relief system facilitate secure, error-free installation and identification. The cable's ultra-flexible construction, featuring a minimal bend radius, enables deployment in confined spaces such as racks, podiums, or digital signage enclosures. Designed for HDMI 2.1 signal paths, the assembly supports advanced AV protocols and high-bandwidth content distribution in meeting rooms, control centres, and hybrid workspace environments.

- **HDMI 2.1 8K Signal Support:** Active optical transmission supports HDMI 2.1 bandwidths up to 48Gbps, enabling uncompressed 8K UltraHD-2 video at 60Hz, HDR, 3D, and advanced content protection protocols such as HDCP 2.2 for secure AV distribution.
- **Ultra-Flexible Cable Construction:** The 25.75mm minimum bend radius and 5.0mm outer diameter allow routing through tight spaces and complex cable management systems, supporting installations in racks, podiums, and behind displays.
- **Compact HDMI-A Connectors with SLS:** Secure-Lock-System (SLS) provides mechanical retention, reducing accidental disconnections in fixed installations. Blue strain relief is standard, with six additional colour options available for function coding and cable management.
- **Hybrid Fibre-Copper Topology:** Optical fibres transmit high-speed data, while high-purity OFC (oxygen-free copper) conductors supply power, ensuring signal integrity and compliance with HDMI 2.1 power requirements across the full cable length.
- **Graphene Nano Shielding:** Triple-layer shielding, including graphene nano material, provides advanced protection against electromagnetic and radio-frequency interference, maintaining signal quality in electrically noisy AV installations.

Technical Solution for High-Bandwidth AV Distribution

The Ultra High Speed HDMI 2.1 Fiber Optic Cable addresses the challenges of high-resolution signal transmission, electromagnetic interference, and complex routing in professional AV environments. Its hybrid optical-copper design, advanced shielding, and flexible construction support reliable 8K content delivery and protocol compatibility in demanding installation scenarios.



Features

- HDMI 2.1 - 48Gbps for resolutions up to 8K UltraHD-2 60Hz
- Ultra-flexible cable (25.75mm bend radius) and connector with SLS
- HDMI-A to HDMI-A with blue strain relief (6 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 colour	Black
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

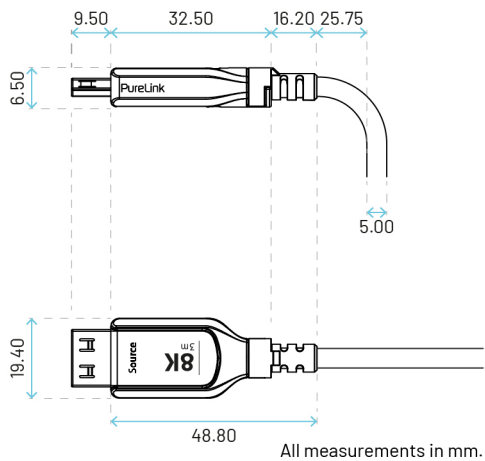
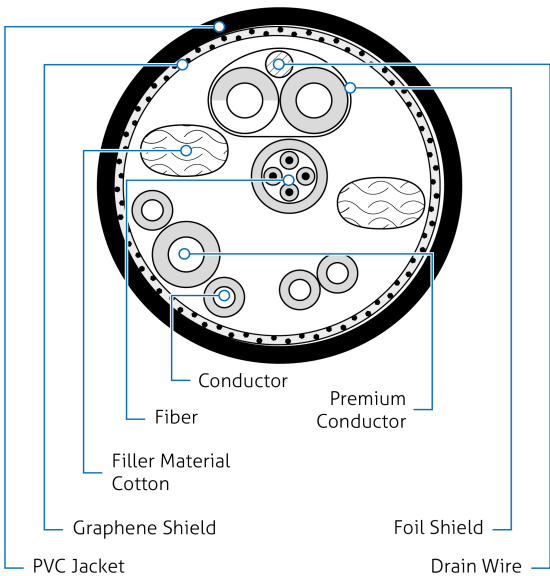
Features	
High Dynamic Range (HDR) technology	Dolby Vision, Dolby Vision IQ, High Dynamic Range (HDR), High Dynamic Range 10 (HDR10), Hybrid Log-Gamma (HLG), Hybrid Log-Gamma Pro (HLG Pro)
Colour space	RGB, YCBCR (4:2:0), YCBCR (4:2:2), YCBCR (4:4:4)
Colour depth	16-bit
Supported digital audio channels (uncompressed)	2.0, 2.1, 32, 5.1, 7.1
Other features	2x Velcro cable tie, 2x removable strain relief (blue)

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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