

PureLink

EZ-H Owner's Manual

Integrated HDMI over Fiber Optic Cable



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Chapter 1. Product Overview

1.1 Safety Precautions

- All safety instructions should be read and understood before the unit is operated.
- The owner's manual and safety instructions should be retained for future reference.
- Unplug this unit from the AV devices before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth only.
- Keep away from wet, magnetic, and flammable surfaces or substances.
- Do not place any heavy objects or equipment on top of the unit.

If you experience any malfunctioning of product or have any question as to operation of the product, please contact our customer service center.

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Welcome!

Congratulations on your purchase of the PureLink EZ-H Integrated HDMI over Fiber Optic Cable. This manual contains information that will assist you in installing and operating the product.

1.2 Product Description

The TOTALWIRE™ EZ-H offers the easiest install solution for HDMI, supporting resolutions up to 4K / Ultra HD over long cable runs (up to 100 meters) without the need for an external power supply or additional extenders. With its ultra thin, flexible cable and small connector, the EZ-H delivers ultimate reliability and convenience.

Smaller is Better

With its ultra thin, flexible cable (3mm jacket diameter) and small connector, the EZ-H can easily be pulled through conduits and sustain difficult turns for quick, versatile installations. The EZ-H Integrated Optical HDMI Cables support all PC and HDTV resolutions up to 4K/Ultra HD with 36 bit Deep Color and HDCP compliance at a distance of up to 100 meters.

All the Advantages, None of the Hassle

PureLink's TOTALWIRE EZ-H fiber cables are completely self-powered and available in pre-terminated lengths with both plenum and UL riser sleeves. The EZ-H can simply be used as a regular HDMI cable for powerful, long-distance extension without the need for additional extenders, equalizers, or power supplies.

The EZ-H delivers ultimate reliability and convenience for an *EZ-In, EZ-Out* fiber transport solution.

1.3 Product Features

- Supports all PC and HDTV resolutions up to 4K / Ultra HD
- 3D Support with 36-bit Deep Color
- Pre-terminated lengths up to 100 meters (328 ft.)
- Incorporates active transceivers inside connectors
- Plug-n-play (no additional power supply required)
- HDCP Compliant
- Plenum-rated cable
- Immune from EMI and RFI
- No signal loss

Common Application

- Digital Home Theater

- Conference Room AV System
- Medical Display System
- Data Center
- Digital Signage

1.4 What's in the Box

- **EZ-H series HDMI Fiber Optic Cable** : One (1) unit
- **User's Manual**



Figure 1 – EZ-H Series HDMI over Fiber Optic Cable

- **Hardware requirements**
 - You have to have a video source that has HDMI output port such as PC, media player, portable devices with appropriate adapter/converter. It should support the maximum graphic resolution feature of displays to be connected.
 - No special requirements memory size, CPU speed and chipsets, if you've already properly installed your HDMI graphic controllers or cards.
- **Software requirements**
 - No requirements.

1.5 Installation

Important : Please use the installation procedure below. Improper or no operation may result if the start up sequence is not correctly followed.

1. Carefully unpack the contents of the shipping group
2. Turn off the entire system before connecting
3. Plug directly the Tx (Video Source) connector of EZ-H cable in the HDMI output port of your video source. Make sure cable is firmly inserted.



4. Plug the Rx (Display) connector of EZ-H cable to the HDMI input port of display (HDTV, Plasma screen, Projector, etc). Make sure cable is firmly inserted.



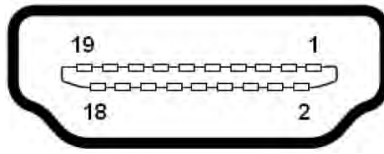
5. Turn power on the source and the display

Chapter 2. Product Specifications

2.1 EZ-H Specification

Item	Description
Model	EZ-H
Input type	HDMI, 1 port
Output type	HDMI, 1 port
Graphic Resolution	VGA / SVGA / XGA / UXGA / WUXGA 480i/p , 720i/p , 1080i/p, 4K/UHD (3840x2160)
Available Cable Length	EZ-H-010 : 33 ft (10 m) EZ-H-020 : 66 ft (20 m) EZ-H-030 : 100 ft (30 m) EZ-H-040 : 133 ft (40 m) EZ-H-050 : 165 ft (50 m) EZ-H-070 : 231 ft (70 m) EZ-H-100 : 330 ft (100 m)
Audio	Up to PCM 8 channel, Dolby Digital TrueHD, and DTS-HD Master Audio
Cable Jacket Material	Plenum Rated PVC
Cable Inner-jacket Material	Plastic Optical Fiber and Copper
Cable Diameter	0.12" (3 mm)
Bend Radius	0.2" (5 mm) minium
Pull weight	22 lbs (10 kg)
Compliance	HDMI, HDCP, CEC
Operating Temperature	32° - 122° F (0° - 50° C)
Operating Humidity	5% - 85% RH
Power	5V via HDMI pin # 18
Power Consumption	0.07 watts

2.2 HDMI Receptacle Pin Assignment



HDMI Connector Pin Assignment

Pin No.	Signal Name	Pin No.	Signal Name
1	TMDS DATA 2+	11	TMDS Clock Shield
2	TMDS DATA Shield	12	TMDS Clock -
3	TMDS DATA 2-	13	CEC
4	TMDS DATA 1+	14	Reserved (HDMI 1.0–1.3c)
5	TMDS DATA Shield	15	SCL (I ² C Serial Clock for DDC)
6	TMDS DATA 1-	16	SDA (I ² C Serial Data Line for DDC)
7	TMDS DATA 01+	17	DDC/CEC/HEC Ground
8	TMDS DATA Shield	18	+5 V (max 50 mA)
9	TMDS DATA 0-	19	Hot Plug detect (all versions)
10	TMDS Clock +	20	

2.3 Troubleshooting

The display shows only black screen.

- Ensure that the HDMI ports are firmly plugged in to the source and display.
- Ensure that the Video source (Tx) is connected to the video source and Display (Rx) is connected to the display.
- Check if the source and display are powered on and properly booted.
- Re-boot up the system while connecting the optical HDMI extension module.

Screen is distorted or displays noises.

- Check if the graphic resolution is properly set for the sources. For PCs, go to the display properties of Windows and tap the settings. For other AV video source, refer to the owner's manual to adjust video resolution.
- Reboot the system. Disconnect the optical HDMI cables if necessary.

2.4 Maintenance

No special maintenance is required for the EZ-H HDMI over Fiber Optic Cable. Ensure that the EZ-H unit is stored or used in a benign environment free from liquid or dirt contamination. There are no user serviceable parts. Refer all service and repair issues to PureLink.

Chapter 3. Additional Information

3.1 Manufacturer's Warranty (2-Year)

PureLink warrants this EZ-H HDMI over Fiber Optic Cable to be free from defects in workmanship and materials, under normal use and service, for a period of two (2) year from the date of purchase from PureLink or its authorized resellers.

If the product does not operate as warranted during the applicable warranty period, PureLink shall, at its option and expense, execute one of the following as necessary:

1. Repair the defective product or part
2. Deliver to customer and equivalent product or part to replace the defective item
3. Refund to customer the purchase price paid for the defective product

All products that are replaced become the property of PureLink. Replacement products may be new or reconditioned. Repaired or replacement products or parts come with a 90-day warranty or the remainder of the warranty period. PureLink shall not be responsible for any software, firmware, information, or memory data loss of contained in, stored on, or integrated with any products returned to PureLink for repair under warranty.

3.2 Customer Service

Any customer service inquiries can be submitted electronically through the Q&A form on our website (www.purelinkav.com).

For immediate assistance please contact us at (201) 488-3232 to reach our customer care or tech support team.