

Introduction

DVI Gear's HyperLight® Series is a new generation of advanced Active Optical Cables (AOC) that employs cutting edge technology to deliver unprecedented resolution, performance and value. HyperLight DVI cables provide robust features in a rugged yet compact and lightweight form factor. They are fully HDCP compliant and support signals with data rates up to 4.95 Gbps. These features enable HyperLight cables to support any Single Link DVI resolution with cable lengths up to 100 meters.



These cables are plenum rated (UL CMP-OF), compact, lightweight and highly flexible. Constructed using a hybrid design of 4x POF (Polyfluorinated Optical Fiber) and 6x copper wires, they are rugged, yet flexible, with a minimum bend radius of just two millimeters. The cables draw power from the connected DVI source, eliminating the need for an external power supply.

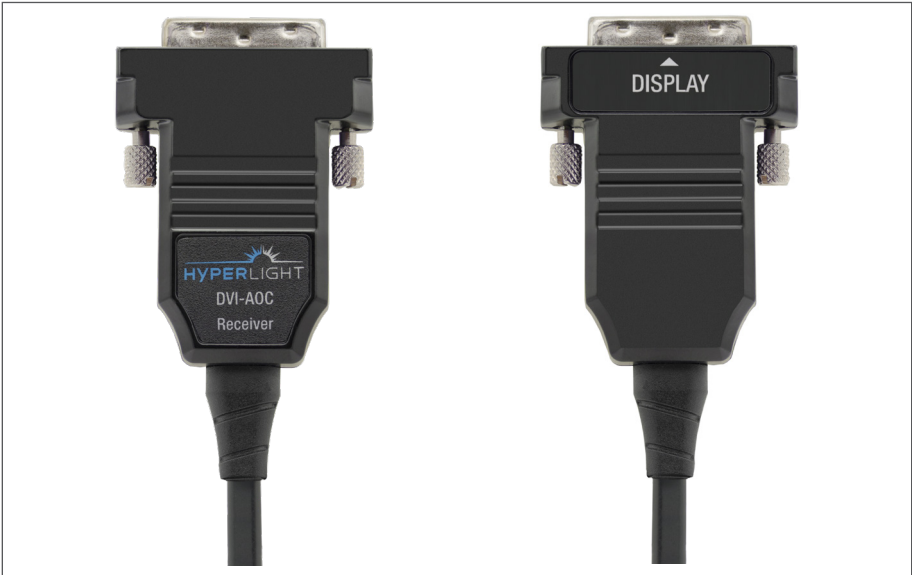
The use of optical fiber and shielded metal DVI connectors provide for a high level of immunity to RFI / EMI, allowing these cables to be used in environments with high levels of ambient interference, or in high-security applications that require low profile signal transmission. These features make HyperLight AOC cables are ideally suited for mission-critical applications that require high resolution DVI signals to be extended over long cable runs with flawless image quality.

Features

- Lightweight, compact, flexible, plenum rated Active Optical Cables (AOC)
- Supports DVI 1.0 and HDCP 1.4. Supports HDMI using optional adapter cables
- Supports data rates up to 1.65 Gbps / lane or 4.95 Gbps total
- Extends any DVI Single Link resolution up to 328 ft. (100 meters)
- Compact, non-detachable DVI connectors with locking screws for high-density applications
- Powered by the DVI source, no AC power adapter needed
- Supports DDC communications for EDID and HDCP
- Low RFI / EMI profile for sensitive applications
- Shielded Metal DVI Connectors provide increased immunity to RFI / EMI, allowing the cable to be used in high-interference applications



Transmitter / Source Front and Back



Receiver / Display Front and Back



1. DVI Connector	Connect the Transmitter (TX or Source) end to the DVI source device. Connect the Receiver (RX or Display) end to the display device.
2. DVI Securing Screw	Insert and tighten screws on the DVI connectors when mating with the source and display units.
3. Hybrid Optical / Copper Cable	The DVI signal is transported from the TX module to the RX module over a hybrid optical / copper cable. The minimum bend radius for this cable is 2 mm. ⁽¹⁾

Note 1: WARNING: Take care that the cable is not forced to bend beyond its minimum bend radius.

Installation Instructions

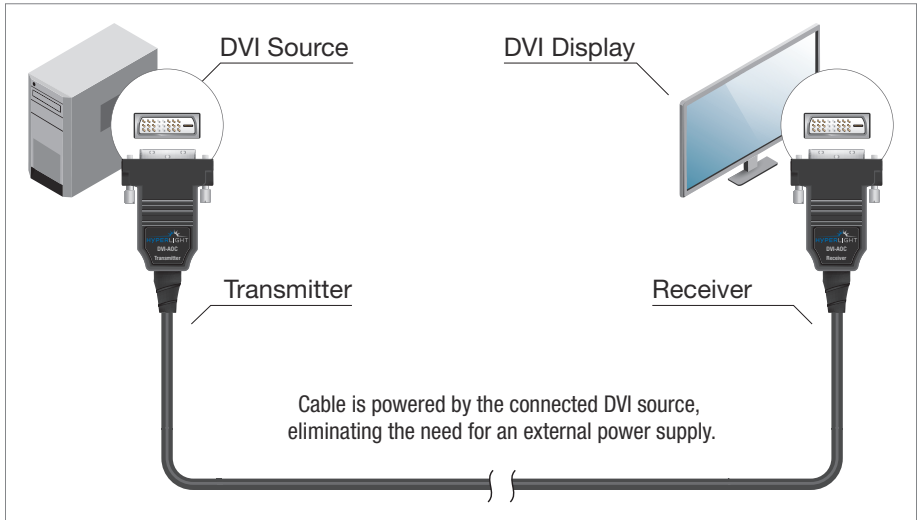
1. This cable includes two DVI docking connectors. One is labeled “Transmitter” on the front side and “Source” on the back; the other is labeled “Receiver” and “Display.”
2. Connect the Transmitter / Source docking connector to a DVI source device (such as a PC).
3. Connect the Receiver / Display docking connector to a display or projector.
4. First, turn ON the Display and then turn ON any signal distribution equipment (if used). Finally, turn ON the source device. Test the system to ensure proper performance.

Info 1: This cable requires very low power, which it draws from the connected DVI source. This eliminates the need for an external power supply.

Info 2: This cable may be connected to an HDMI source and/or display using a DVI to HDMI Adapter Cable (Model No. DVI-8511c).

Note 2: WARNING: This cable is UNIDIRECTIONAL and will not function if it is installed backward. Always connect the TX end (labeled Transmitter / Source) to the source device and the RX end (labeled Receiver / Display) to the display.

Typical Application



DVI-23xxx-AOC-M DVI Active Optical Cable

Package Contents

Each DVI-23xxx-AOC-M cable comes packaged with the following components:

- 1 x DVI-23xxx-AOC-M cable
- 1 x HyperLight DVI-AOC-M Quick Start Guide

Note: Please retain the original packing material should the need ever arise to return the unit. If you find any items are missing, contact your reseller or DVIgear immediately. Please have the Model Number, Serial Number and Invoice Number available for reference when you call.

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