



FEATURES

- Supports resolutions up to 4096x2160 @ 60Hz
- Supports digital bit rates up to 21.6 Gbps.
- Available in cable lengths up to 40 meters (130 ft.)
- Optical fiber transmission is immune to environmental signal noise
- Low RFI / EMI profile for sensitive applications
- Supports bidirectional communications over AUX channel for EDID, HDCP, Link Training, etc.
- Powered by the DisplayPort source device
- Rugged yet pliable construction

Superior Performance – Designed to overcome the limitations of sending digital DisplayPort signals over copper wires, DVI Gear’s fiber optic cables provide unmatched signal fidelity and transparency at resolutions up to 4096x2160 @ 60Hz with lengths up to 40 meters (130 ft.). These cables utilize high-speed electro-optical converters integrated within the cable. The transmitter module converts the electrical signals from a DisplayPort source device to optical pulses that are transported over the fiber optic cable to the receiver. The receiver module converts the optical pulses back to the original DisplayPort signal for display on a monitor or large screen projector.

Rugged Construction – The cable material utilizes an innovative hybrid design that includes 4x glass optical fibers and 6x copper wires. This approach provides a high degree of ruggedness and flexibility. The DisplayPort connectors employ a locking mechanism to ensure a secure connection. The transmitter and receiver modules are shielded in high-impact, metal alloy enclosures that provide maximum strength and durability.

Advanced Design – These cables are designed for use in mission critical applications where image quality and dependability are paramount. The video signals are transmitted over four optical fibers, which make them immune to interference from environmental noise sources. The optical transmission path provides a very low RFI / EMI profile, which allows the cables to be installed in sensitive applications with strict security requirements. These cables draw power from the connected DisplayPort source, eliminating the need for an external power supply. These features make these cables ideally suited for critical display applications that require long DisplayPort cable runs with ultra-high resolution and flawless image quality.



DisplayPort Connector



Transmitter Module

SPECIFICATIONS

Performance	
Compliance	DisplayPort v1.2a, HDCP
Maximum Video Bit Rate	5.40 Gbps. per Channel / 21.6 Gbps. Aggregate
Supported Color Depth	Up to 16-bit
Supported Resolutions	Up to 4096x2160 @ 60Hz with 8-bit color
Digital Audio Support	8x channels of 24-bit 192 kHz uncompressed PCM audio
AUX Channel	
Bandwidth	720 Mbps.
AUX Channel Support	Supports bidirectional communications over AUX channel for EDID, HDCP, Link Training, etc.
Connections	
DP Input / DP Output	20-pin DisplayPort Male Connectors with locking mechanism
Power Input	None
Optical	
Optical Technology	4x Discrete Optical Channels
Optical Wavelength	850 nm
Optical Transmitter	Tx Module: 4x 850nm Multi-Mode VCSEL, Class 1 Laser Product
Optical Receiver	Rx Module: 4x GaAs PIN Photo Diodes
Cable	
Fiber Cable Type	4x 50/125µ Multi-Mode Glass Optical Fibers
Standard Lengths (meters)	10, 15, 20, 25, 30, 35, 40
Standard Lengths (feet)	32.8, 49.2, 65.6, 82.0, 98.4, 114.8, 131.2
Maximum Cable Length	131.2 ft. / 40 meters
Cable Jacket	FR, PVC, Black
Cable Outside Diameter	7.4 mm ± 0.20mm
Mechanical - Tx and Rx Modules	
Construction	High-impact metal alloy enclosures with integrated 12" DP copper cables
Dimensions (L x W x H)	4.5" x 1.0" x 0.9" (114.0 mm x 24.8 mm x 21.7 mm)
Mechanical - Cable	
Product Weight	Varies by length
Maximum Tensile Load	Short Term: 245 N
Minimum Bend Radius	Short Term: 75 mm Long Term: 125 mm
Crush Resistance	Short Term: 490 N / 50 mm section
Environmental	
Operating Temperature	+32° to +122° F (0° to +50° C)
Storage Temperature	-4° to +158° F (-20° to +70° C)
Operating / Storage Humidity	10% to 80% (non-condensing)
Power Requirements	
Power Source	Powered from DisplayPort source device
Power Consumption	< 1 watt typical
Regulatory Approvals	
Fiber Optic Cable	FCC, CE, RoHS
Warranty	
Limited Warranty	3 Years
Model Number	
DVI-26xx-FO	DisplayPort v1.2 Fiber Optic Cable (xx = length in meters)
Accessories Included	
1x Quick Start Guide	
Optional Accessories	
DisplayPort Female to Mini-DisplayPort Male Adapter Cable (Model No. DVI-8610a)	