

**Product Description:**

Designed to overcome the barriers of sending digital DVI signals over copper wires, DVIGear's extended length fiber optic cables provide unmatched signal fidelity and transparency over a wide range of input resolutions with lengths up to 100 meters. These cables utilize high speed fiber-optic converters integrated within each connector that convert the digital input signals into light pulses, and then back again at the display. The cable material is an innovative hybrid design consisting of 4 high-speed glass fibers and 5 copper wires, which offers a high degree of ruggedness and flexibility. These features make these cables especially well suited for critical display applications that require long DVI cable runs.

**Key Features:**

- Supports HDTV resolutions up to 1080p
- Supports PC resolutions up to 1600x1200 and 1920x1200
- Supports digital bit-rates up to 1.65 GBit/sec.
- Optical fiber transmission is immune to environmental signal noise
- Low RFI / EMI profile for sensitive application
- Supports bi-directional DDC communications, fully HDCP compliant
- Can be powered by DVI source, or using optional +5VDC external power supply
- Rugged yet pliable construction



# DVI-2300-FO Series

## Extended Length DVI Optical Cables

### Specifications:

Connections:	
Input / Output	25-pin Male DVI-D connectors
Power	3.5mm jack
Resolution:	
PCs	Supports all Single-Link DVI resolutions up to 1600x1200 and 1920x1200
HDTV	Supports HDTV resolutions up to 1080p and 2048x1080
Bandwidth:	
Pixel Rates	Supports pixel clock rates up to 165 MHz
Bit Rates	Supports digital signal bit rates up to 1.65 GBit/sec.
Optical:	
Optical Transmitter	Tx Module: 4-channel 850 nm Multi-mode VCSEL (Class 1 laser product)
Optical Receiver	Rx Module: 4-channel GaAs PIN photo diode
Fiber Cable	4x 50/125 $\mu$ Multi-Mode Glass Optical Fiber (GOF)
Cable Construction:	
Standard Lengths (meters)	10, 15, 20, 25, 30, 40, 50, 75, 100
Standard Lengths (feet)	32.8, 49.2, 65.6, 82, 98.4, 131.2, 164, 246
Custom Lengths	Available on request, maximum length = 100 meters / 328 ft.
Cable Jacket	FR, PVC (orange)
Cable Outside Diameter	7.4 mm $\pm$ 0.20mm
DDC Support:	
EDID Support	EDID communications are fully supported
HDCP Support	HDCP communications are fully supported
Power:	
Internal Power (from DVI Source)	Requires at least 350 ma of DC current from DVI source, pin 14 of DVI connector
Optional External Power Supply	Input: 100-240VAC, 50-60Hz 0.2A / Output: +5VDC @ 0.5A
Power Consumption	Maximum: 1.8 watts
Mechanical:	
Construction	High impact metal alloy enclosures
Connector Dimensions (L x W x H)	2.80" x 1.56" x 0.59" / 71.2 mm x 39.5 mm x 15.0 mm
Weight	Varies by length
Maximum Tensile Load	Short Term: 245 N
Minimum Bend Radius	Short Term: 75 mm Long Term: 150 mm
Crush Resistance	Short Term: 490 N/50 mm section
Environmental:	
Storage	-4° to +158° F. / -20° to +70° C.
Operation	+32° to +122° F. / 0° to +50° C.
Relative Humidity	10% - 80%
Compliance:	
These cables are RoHS and CE compliant	