

## SPECIFICATION



**DVI AOC**

### **Descriptions**

DVI active optical cable (AOC) with its function of high performance, low power consumption and low cost. Using optical fiber, to replace copper wire as the high-speed signal transmission medium, DVI AOC can perfectly transmit HD image over 100 meters. Compared with the traditional copper wire, DVI AOC is much longer, softer, slimmer with better signal quality and perfect EMI / EMC feature. Compared with other, HDMI optical fiber transmission solution, DVI AOC is easy to use, no external power supply needed.

## Key Features

1. Long distance transmission, over 100 meters;
2. Single channel DVI interface, support up to 10.2Gbps bandwidth ;
3. Program and store monitor's EDID information inside of source connecto ;
4. Thinner, lighter and softer than conventional copper cable ;
5. No radiation, and highly resistant with EMI ;
6. Supports computer resolutions to 1080P and 4K2K(30P);
7. Request no external USB power supply.

## Applications

- Digital Signage, Security systems, Home Theater;
- Conference Room Video Equipment;
- LED signboards in streets and in stadiums; TV Broadcast Station;
- Medical Imaging Equipment, Airplane On-board Video System;
- Blue-ray, 3D video, Projector, Set-up box, DVR, Game Consoles and Computer.

## Specifications

### 1. Absolute Maximum Ratings

Parameter	Symbol	Min.	Typ.	Max	Unit
Supply Voltage	VCC	-0.5		6	V
Storage Temperature	Tstg	-20		70	°C
Relative Humidity	RH	5		85	%
Electrostatic Discharge Immunity (Air:8kV ,Contact:6kV)		B			Class

### 2. Recommended Characteristics

Parameter	Symbol	Min.	Typ.	Max	Unit
Supply Voltage	VCC	4.8	5	5.3	V
Operating Temperature	T <sub>op</sub>	0		50	°C

#### 4. Physical Characteristics

Parameter	Value	Unit
Cable Dimensions(WXH)	4.0mm( $\pm$ 0.2mm)	mm
Cable Color	Black	-
Optical Fiber	Multi-mode fiber	um
Copper Wire	28AWG (7/0.127mm)	-
Cable Material	PVC	-
Connector Pull Strength	15	Kg
Compression Load Resistance	50	Kg
Minimum Bending Radius	40	mm
Case Material	Zinc Alloy Metal	

#### 3. Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max	Unit
Operating Current	$I_{op}$	35	50	56	mA
Power Consumption	$P_o$	0.18	0.25	0.28	W
TMDS Differential Input Voltage	$V_{ID}$	400		1600	mV
TMDS Differential Output Voltage	$V_{OD}$	200	300	400	mV
TMDS Data Bit Rate		250		1650	Mbps