

Detachable DVI Active Optical Cable (UDO-xx)

OVERVIEW

Unive DVI Active Optical Cable (AOC) is capable of transmitting high definition video data from source, such as a PC, to a display, such as a high resolution monitor and projector up to 100 meters without signal attenuation. It used high speed electrical to optical and optical to electrical converters integrated within each connector.

Unive achieved very unique and innovative detachable plug structure, which enable installer to pull through conduit with the docking plug (T/Rx sub) and makes it easier to install in tight in-wall spaces.

POF(Plastic Optical Fiber) cable applied to Unive DVI AOC is a hybrid design consisting of 4 high-speed plastic fibers and 6 copper wires, which offers thinner, lighter, and more flexible than conventional DVI AOC as well as copper cable. It is also resistant to EMI and RFI so the performance is very stable when it is used in operating rooms or manufacturing facilities, where high resolution and consistent display are required.



FEATURES

- DVI-D Single Link Active Optical Cable
- Easy installation with detachable feature
- Designed for pulling through conduit
- Available conduit diameter: [25mm](#)
- Supports WUXGA(1920 X 1200 @60Hz), UXGA(1600 X 1200 @60Hz, up to 1.65Gbps/ch)
- Supports HDCP
- Resistant to EMI/RFI
- Small and flexible cable eases to use
- No external power needed
(Supplied current from the source device within DVI specification)
- 5mm minimum bend radius
- UL- Plenum cable, Non-UL cable

APPLICATIONS

- Monitor, PC, projector
- Conference room video system, digital home theater, medical display system
- Data center, digital signage for outdoor advertising, factory automation systems

SPECIFICATIONS

Parameter	Min.	Typ.	Max	Unit
ABSOLUTE MAXIMUM RATINGS				
Supply Voltage	-0.5		6	V
Storage Temperature	-20		70	°C
Relative Humidity	5		85	%
Electrostatic Discharge Immunity (Air: 8kV, Contact: 6kV)	B			Class
RECOMMENDED OPERATING CONDITIONS				
Supply Voltage*	4.8	5.0	5.3	V
Operating Temperature	0		50	°C
ELECTRICAL CHARACTERISTICS				
TMD5 Differential Input Voltage	400		1600	mV
Operating Current	35	40	47	mA
Power Consumption	0.06	0.07	0.08	W

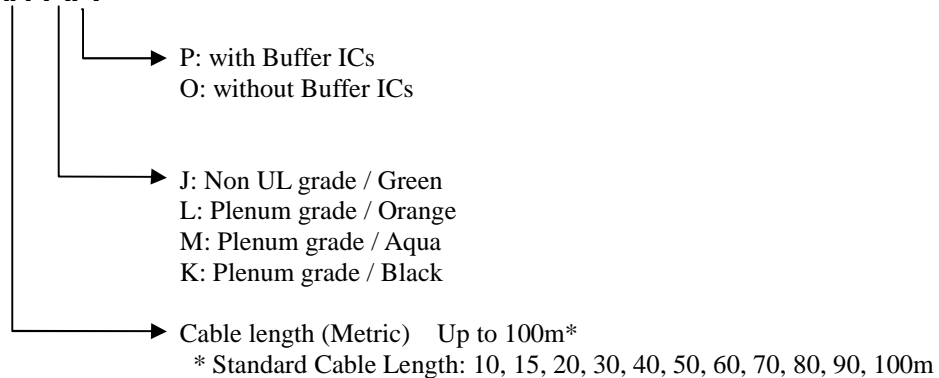
* All power Supplied from DVI port

PHYSICAL CHARACTERISTICS

Parameter	Value	Unit
Cable Assembly		
Cable Type	Hybrid Cable Plastic Optical Fibers and Electrical Wires	
Cable Dimensions (W x H)	5.10 x 2.90	mm
Cable Color	Riser: green Plenum: orange	
Connector Pull Strength	10	Kg
Minimum Bend Radius	5	mm
Case Material	PC(Polycarbonate)	

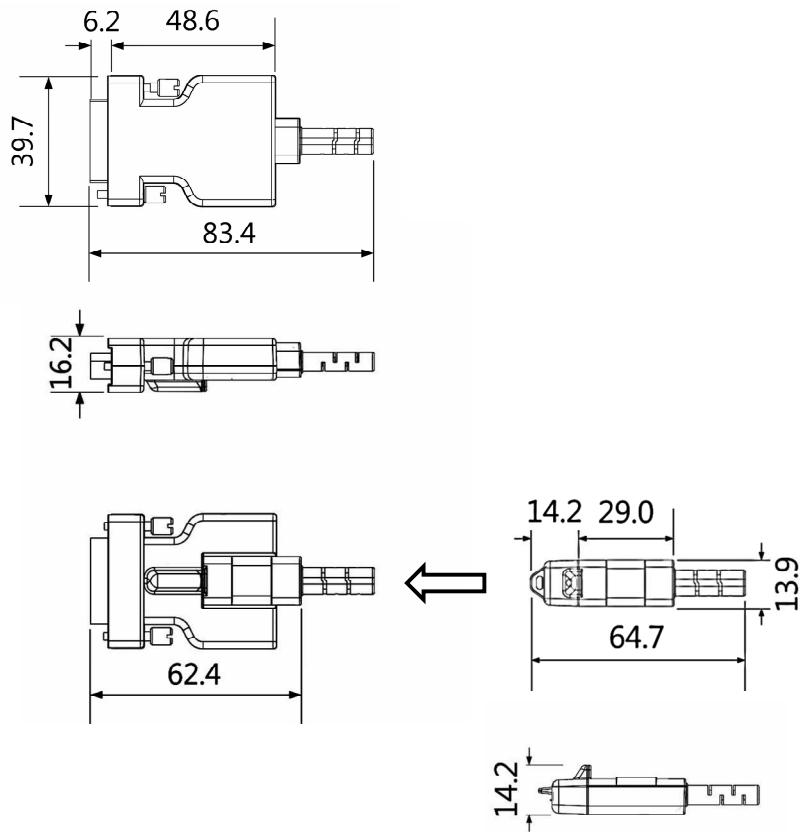
ORDERING INFORMATION

UDO-xx XX



PRODUCT DIMENSIONS

Unit: mm



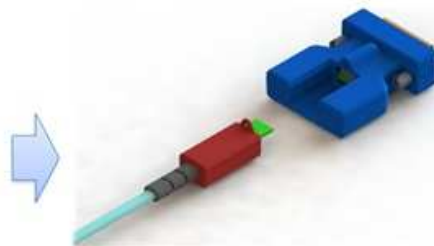
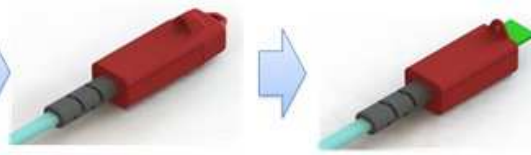
CONNECTION DIAGRAM

● Installation at Field

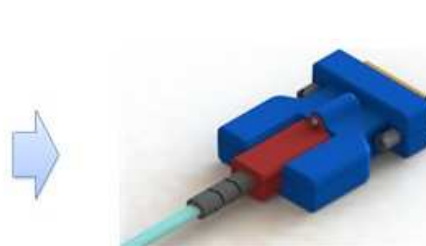
1. Pulling through conduit



2. Remove the screw & cap

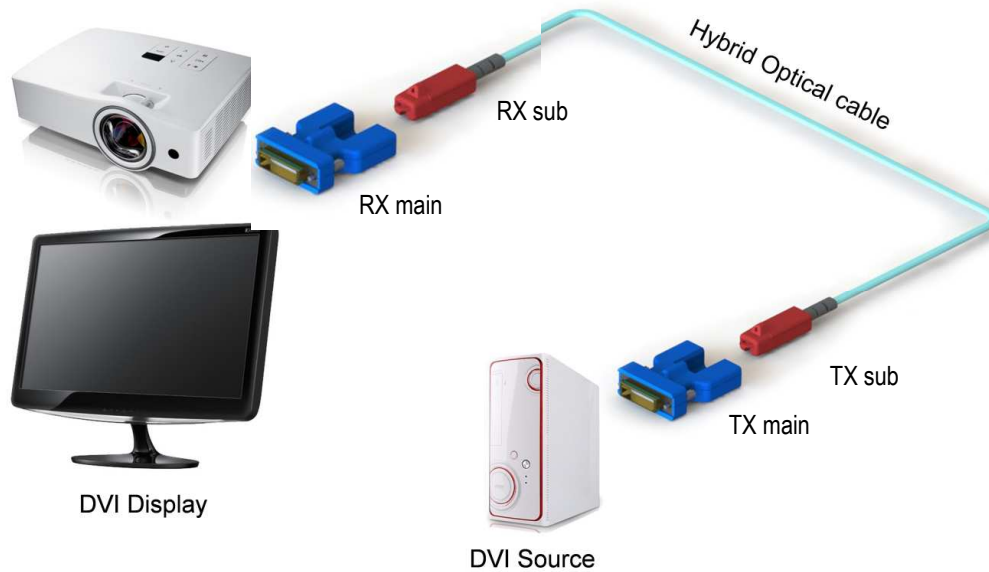


3. Connect main + Sub



4. Tighten the screw

- **Cable connection**



1. TX sub(or RX sub) pass through the conduit.
2. Remove the screw and cap.
3. Connect TX main to TX sub and RX main to RX sub.
4. Plug in TX connector labeled SOURCE to DVI port of source device like PC.
5. Plug in RX connector labeled DISPLAY to DVI port of display device like a monitor
6. Follow the same connecting way for connecting a projector or other display.

Product Inquiry

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