

AVVA-Pro HDMI2.0 18G

Active Optical Cable

Rev. 1.1



1 Description

This product is an HDMI2.0 active optical cable (AOC) with high bandwidth, low power consumption and low cost. Using optical fiber to replace copper wire as the high-speed signal transmission medium, it can perfectly transmit 4k@60hz UHD image up to more than 100 meters. Compared with the traditional copper wire, HDMI AOC is much longer, softer, more slim, with better signal quality and perfect EMI/EMC feature. Compared with other HDMI optical fiber transmission solution, HDMI AOC is easy to use, has perfect compatibility, and no external power supply needed.

2 Feature

- 1) Long distance transmission, over 100 meters
- 2) HDMI2.0 standard, support up to 4K@60hz UHD display

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- 3) Support HDCP2.2
 - 4) Not support Ethernet and ARC
 - 5) Plug and play without driver dependent
 - 6) Thinner, lighter and softer than conventional copper cable
 - 7) Highly resistant to EMI and RFI
 - 8) No external power needed

3 Specification

Cable Length

Up to 100m (10m/20m/30m/40m/50m/70m/100m)

Interface

HDMI type A pluggable - HDMI type A pluggable

Bandwidth

HDMI2.0, 18Gbps, support 4k@60hz UHD display

Power & Consumption

No external power needed 250mW

Mechanical / Condition

Cable diameter	4.0mm
Bend Radius (Dynamic/Static)	20mm/10mm
Tensile Strength (Long term/Short term)	100N/200N
Crush Resistance (Long term/Short term)	200N/400N
Operating / Storage Temp	0~50°C / -20~70°C

4 Part Number

Part Number	Description
HDMI AOC18-xxx	HDMI AOC, Type A male to male, Silver metal housing xxx=xxx meter, for example 050=50 meter

①: All of standard cables have no logo. NRE is need if adding customized logo.

5 Application

- 1) Home Theater
- 2) High definition Video Meeting System
- 3) Medical Video System
- 4) High definition Video Surveillance System
- 5) Digital Signage and TV Wall

Home Theater



HD video conference



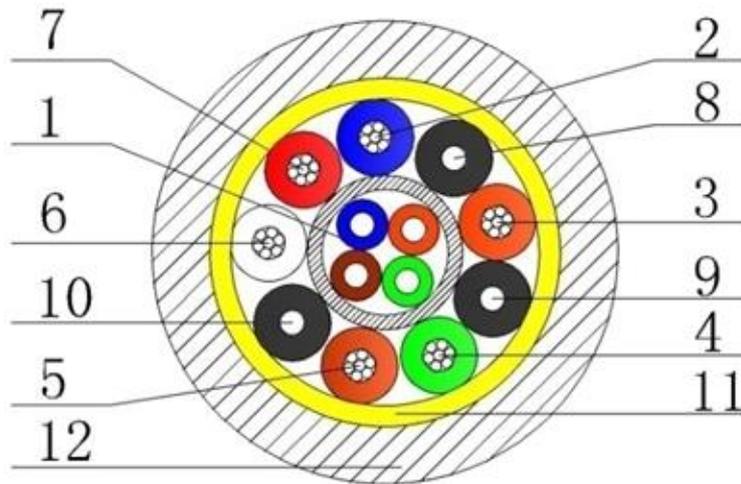
Outdoor large screen display system



Medical, military image system



6 Fiber Specification



Item	Contents	Value	Supplement
1	Sub cable	A1a,A1b or other types, Tight Buffer Fibers	4 cores (Blue、 Orange、 Green、 Brown) OD=1.3—1.6mm
2-7	Insulation Stranded copper wires	7*0.127,28AWG or other types	7 cores, OD=0.60—0.75mm (Blue, Orange, Green, Brown, White, Red)
8-10	Filler		3 Cores, Black, OD=0.68-0.75mm
11	Kevlar	Strength Member	4*1610dtex or other types
12	Outer Jacket	Black LSZH	OD=3.95±0.15mm