

HDMI Active Optical Cables (AOC)



HDR
Ready

4K60
4:4:4

HDMI
2.0

18GBPS

Features

- Low power consumption, no external power supply needed
- Thinner (cable OD 4.8mm), lighter and softer than the normal copper cable
- Support full HDMI 2.0 feature list including HDR, ARC, HLG, Rec. 2020
- Unique internal cabling comprising OM3 multimode optical fibre and copper with pliable PVC sleeve
- Long distance transmission up to 100 meters(330ft)
- Employs VCSEL LED emitters for accurate signal transmission
- Superior transfer rates, up to 18Gb/s @60Hz ideal for 4K and HDR
- Compatible with all versions of HDCP up to 2.2
- Plug & Play no driver required
- RF screening to prevent interference

Overview

These HDMI Active Optical Cables (AOC) from SEADA can carry HDMI HDR signal up to 4K@60fps 4:4:4 at 18Gbps data rate up to 100 meters without any compression. Comprised of a fiber and traditional copper wire cable, this active cable is less susceptible to EMI interference, for a clear and reliable audio/Video signal.

SEADA HDMAI AOC cable features a built-in booster circuit that is self-powered through the HDMI port, therefore no external power supply is required for it to carry video and audio signal.

SEADA offers AOC cable length varies from 10 to 100 meters to give customers' flexibility on length choices, making it perfect for residential A/V, IT, gaming, medical, conference rooms and retail signage.

Specifications

Cable Diameter	4.8mm
Bend Radius (Dynamic/Static)	40mm/20mm
Tensile Strength @ Long term	100N
Tensile Strength @ Short term	200N
Crush Resistance @ Long term	200N
Crush Resistance @ Short term	400N
Cable configuration	4*Fiber + 7*cooper + PE Jacket
Fiber Module	50/125 um
Transducer	4 CH 850nm VCSEL/PIN
Working current	≤45mA
Power Consumption	≤250mw
Finished OD	5.5±0.1mm
HDMI Connector	Type A
Total Bandwidth	18Gbps
Operating Temperature Range	0~50 degrees centigrade
Operating Humidity Range	10%-90% non-condensing
Storage Temperature Range	-20~70 degrees centigrade
Storage Humidity Range	10%~90% non-condensing
Warranty	2 years

Models

Part Number	Description
SC-4K60-A10	10m 4K60 HDMI2.0 Active Optical Cable with18G bandwidth
SC-4K60-A15	15m 4K60 HDMI2.0 Active Optical Cable with18G bandwidth
SC-4K60-A20	20m 4K60 HDMI2.0 Active Optical Cable with18G bandwidth
SC-4K60-A25	25m 4K60 HDMI2.0 Active Optical Cable with18G bandwidth
SC-4K60-A30	30m 4K60 HDMI2.0 Active Optical Cable with18G bandwidth
SC-4K60-A40	40m 4K60 HDMI2.0 Active Optical Cable with18G bandwidth
SC-4K60-A50	50m 4K60 HDMI2.0 Active Optical Cable with18G bandwidth
SC-4K60-A60	60m 4K60 HDMI2.0 Active Optical Cable with18G bandwidth
SC-4K60-A70	70m 4K60 HDMI2.0 Active Optical Cable with18G bandwidth
SC-4K60-A80	80m 4K60 HDMI2.0 Active Optical Cable with18G bandwidth
SC-4K60-A90	90m 4K60 HDMI2.0 Active Optical Cable with18G bandwidth
SC-4K60-A100	100m 4K60 HDMI2.0 Active Optical Cable with18G bandwidth