

Features

- Active Optical Cable
- HDMI 2.0 compliant
- 4K60 4:4:4 HDR video support
- Completely immune to RF and electromagnetic interference.
- Cable Length 1-150m
- LSZH compliant
- Plenum-rated Jacket
- Cable OD 3.5mm
- No Power supply required
- ARC Supported

Compatible with

- Apple TV 4K, MacBook
- Distribution Amplifier, Media Player
- Extender, Converters.
- Gaming Systems, X-BOX One, PlayStation4, PCs and HDMI enabled device

S-MODUL FiHD2.0 series is a HDMI Active Optical Cable (AOC) with high performance, low power consumption and cost effective using optical fiber to replace copper wire as the high-speed signal transmission medium, FiHD2.0 can perfectly transmit 4k@60HZ UHD image up to 150 meters. Compared with the traditional copper wire, FiHD2.0 AOC is much longer, softer, slimmer, with better signal quality and perfect EMI/EMC feature. Compared with other HDMI optical fiber transmission solutions, FiHD2.0 AOC is easy to use, has perfect compatibility, and no external power supply needed, and reliable data transfer with 0% signal loss.

Product Specification

Max Resolution	4K/60Hz/4:4:4 or HDR at 60Hz
Date Rate	Up to 18.0 Gbps
Content Protection	HDCP 2.2
Audio Support	HD Multichannel audio up to DTS:X and Dolby ATOMS,
Color D	1080P: 16bit: 4K
HDR	Supports HDR, HLG, HDR10, and Dolby Vision dynamic range picture modes
Connector Contact Material	Nickel or Gold-plated Phosphorous Bronze
Cable Horizontal Tensile Strength	800N (180 lbs)
Bulkhead Pulling Force	100N/200N (long/short)
Storage Temperature	-5 to 85C
Operating Case Temperature	-20 to 60C

Table 1. Supported Resolution

Common Name	Resolution	Refresh Rate	Color Subsampling	Color Depth Per color
4K	3840x2160	30P	4:4:4	8-bit
4K	4096x2160	30P	4:2:0	16-bit
4K	4096x2160	30P	4:2:2	16-bit
4K	4096x2160	30P	4:4:4	8/12/16-bit
4K	4096x2160	60P	4:2:0	8/12/16-bit
4K	4096x2160	60P	4:2:2	8/12-bit
4K	4096x2160	60P	4:4:4	8-bit
4K	4096x2160	120P	4:2:0	8-bit
8k	7680x4320	30P	4:2:0	8-bit

Video formats below 4K 3840 x 2160/30P are all supported

Figure 1. Type-A Connector Pin Assignment

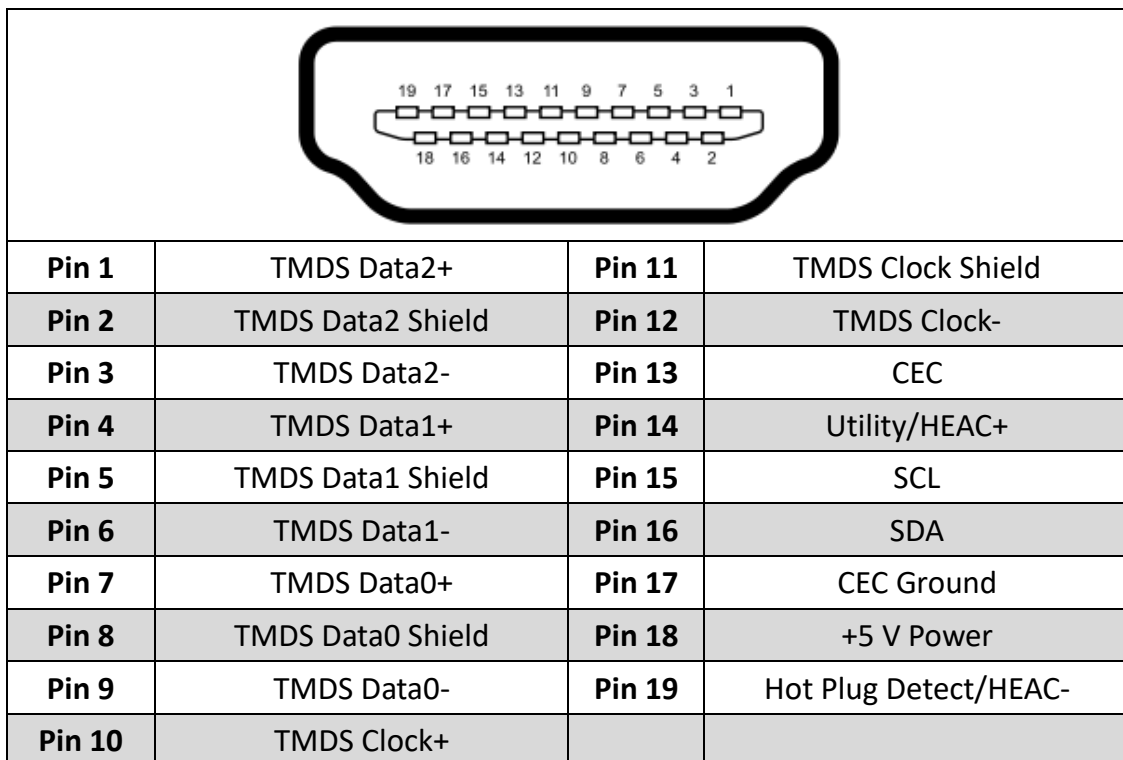
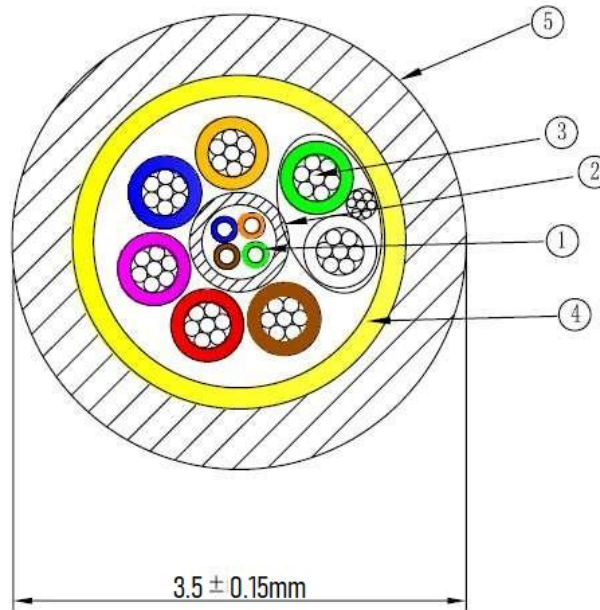


Figure 2 Fiber Spec.



1. Glass Fiber	Multi-mode fiber, 50/125µm, 850nm fiber cladding non circularity : ≤0.8% concentricity error of cladding : ≤1µm
2. Sheath	Round white PVC OD:1.2mm
3. Copper wire	28AWG 7C LSZH jacket
4. Strengthening original	Aramid color (kelver) white/yellow
5. Jacket of cable	Black LSZH

Table 2. Mechanical

Cable Color	Black 90
Cable Diameter	3.5mm
Bulkhead Dimensions	Type-A: 40 mm x 20 mm x 10 mm
Fiber Bend Radius/Hybrid cable Bend Radius	10mm / 35mm
Length	10 ~ 150 m
Cable Weight	
Cable Horizontal Tensile Strength	800N (180 lbs)
Connector Contact Material	
Bulkhead Pulling Force	100N/200N (long/short)

Ordering Information

Part Number	Length	Description
S-MDOULE FiHD 10	33ft (10 M)	HDMI 2.0 Active Optic Cable-10M
S-MDOULE FiHD 15	50ft (15 M)	HDMI 2.0 Active Optic Cable-15M
S-MDOULE FiHD 20	66ft (20M)	HDMI 2.0 Active Optic Cable-20M
S-MDOULE FiHD 30	98ft (30M)	HDMI 2.0 Active Optic Cable-30M
S-MDOULE FiHD 40	131ft (40M)	HDMI 2.0 Active Optic Cable-40M
S-MDOULE FiHD50	164ft (50M)	HDMI 2.0 Active Optic Cable-50M
S-MDOULE FiHD 60	197ft (60M)	HDMI 2.0 Active Optic Cable-60M
S-MDOULE FiHD70	230ft(70M)	HDMI 2.0 Active Optic Cable-70M
S-MDOULE FiHD 80	262ft (80M)	HDMI 2.0 Active Optic Cable-80M
S-MDOULE FiHD 100	328ft (100M)	HDMI 2.0 Active Optic Cable-100M