

Detachable 8K Fiber Optic MPO HDMI Extension Cable

FPHC-K2101

Rev. 1.0



Revision History

Rev	Date(YY/MM/DD)	Author	Description of Changes
1.0	2023/4/26	Tony Wu	Initial Version

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1 Description

The FPHC-2101 8K Fiber Optical HDMI MPO Extension Cable is one of AOCFIBERLINK cutting-edge 8K HDMI signal transmission member, which revolutionizes ProAV and installer practices. Using optical fiber to replace copper wire as the high-speed signal transmission medium, FPHC-K2101 can perfectly transmit 8k UHD image up to 500 meters. Compared with the traditional copper wire, FPHC-K2101 AOC is much longer, softer, slimmer, with better signal quality and perfect EMI/EMC feature. Compared with other HDMI optical fiber transmission solution, FPHC-K2101 AOC is easy to use, has perfect compatibility, and no external power supply needed.

2 Feature

- 1) Long distance transmission, up to 500 meters
- 2) HDMI2.1 standard, support up to 8k UHD display
- 3) Support HDCP1.4/2.2/2.3
- 4) Support CEC (Max: 500m)
- 5) Not support Ethernet
- 6) Not support eARC/ARC
- 7) Plug and play without driver dependent
- 8) Thinner, lighter and softer than conventional copper cable
- 9) Highly resistant to EMI and RFI
- 10) External power needed in the display side

3 Specification

Cable Length	
Up to 500m	
Interface	
HDMI type A plug - HDMI type A plug	
Bandwidth	
HDMI 2.1, 48Gbps, support 8k UHD display	
Power	
External power needed	
Power Consumption	
470mW	
Mechanical / Condition	
Cable diameter	4.0mm
Bend Radius (Dynamic/Static)	90mm/45mm
Tensile Strength (Long term/Short term)	300N/500N(with Armor),220N/300N(without Armor)
Crush Resistance (Long term/Short term)	1000N/1500N(with Armor),80N/150N (without Armor)
Operating / Storage Temp	0~50°C / -20~60°C

4 Part Number

Part Number	Description
FPHC-K2101-XXX	HDMI AOC, Type A male to male, X=X meter, for example FPHC-K2101-020 means Length=20 meters

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

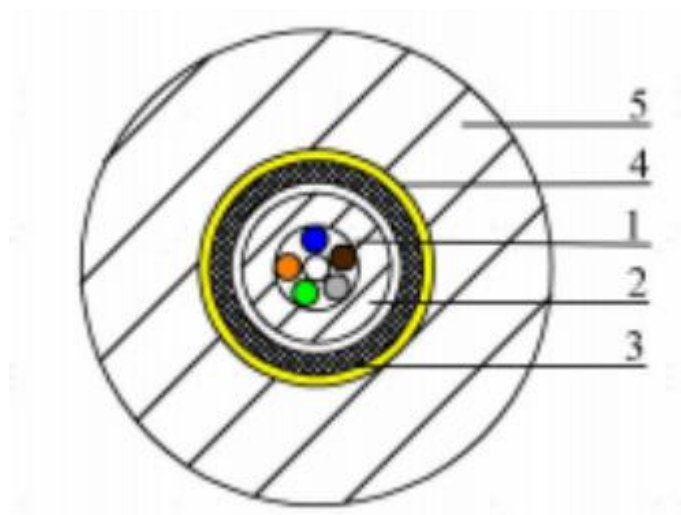


Medical, military image system



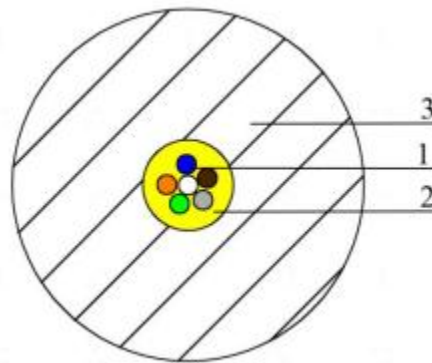
6 Fiber Specification

A. With Armor



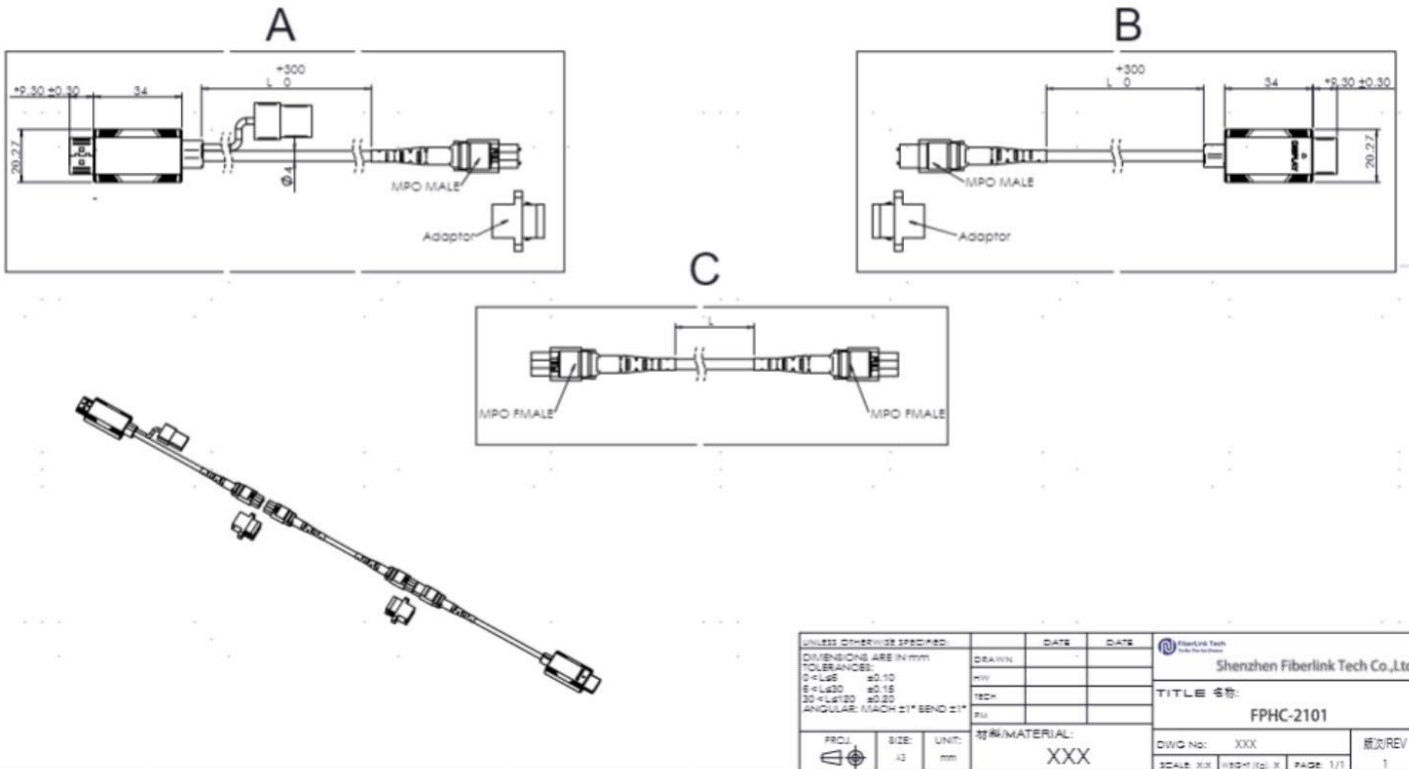
Item	Contents	Value	Supplement
1/2、Optical fiber/sub cable	Tight Buffer Fibers	OM2 250 um Fiber	6 cores (Blue、 Orange、 Green、 Brown、 White、 Grey)
	Sub sheath	LSZH FRPO White	LSZH , OD 0.95±0.05mm ; Sub cable Jacket Thickness 0.15 mm
3、Cladding	Armor	SUS304	1.6/2.1mm ±0.1mm
4、Fill	Aramid	Aramid	1610dtex*6
5、outer sheath		PVC	4.0±0.1mm

B. Without Armor



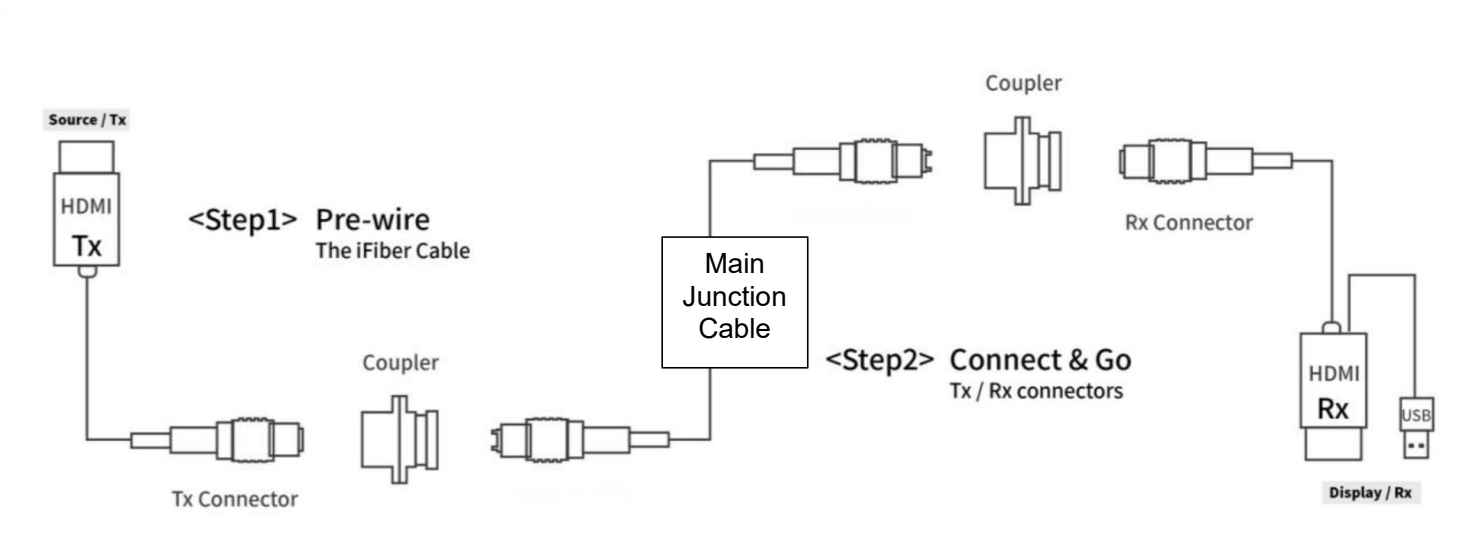
Item	Contents	Value	Supplement
1、 Optical fiber	Tight Buffer Fibers	OM2 250 um Fiber	6 cores (Blue、 Orange、 Green、 Brown、 White、 Grey)
2、 Fill	Aramid	Aramid	1610dtex*6
3、 outer sheath		PVC	4.0±0.1mm

7 Cable Dimension



UNLESS OTHERWISE SPECIFIED:		DATE	DATE	Shenzhen Fiberlink Tech Co.,Ltd TITLE 名称: FPHC-2101 DWG No: XXX SCALE: 1:1 (1:1) X PAGE: 1/1
DIMENSIONS ARE IN mm		DRAWN		
TOLERANCES:		CHK		
0 < L < 30 ±0.10		TECH		
30 < L < 120 ±0.20		FIN		
ANGULAR: MATCH 21° SEND 21°		材料/MATERIAL: XXX		
PROJ	SIZE: 43	UNIT: mm		版次/REV: 1

8 Cable Diagram



9 Ordering Information

- FPHC-K2101-010 - 10 meters
- FPHC-K2101-020 - 20 meters
- FPHC-K2101-030 - 30 meters
- FPHC-K2101-050 - 50 meters
- FPHC-K2101-075 - 75 meters
- FPHC-K2101-100 - 100 meters
- FPHC-K2101-150 - 150 meters
- FPHC-K2101-200 - 200 meters

Remark: customized length up to 500 meters