FIBBR 4K UHD HDMI Cable

Ultra-Series

目 录

1 Description

FIBBR Ultra series product is a HDMI active optical cable (AOC) with high performance, low power consumption and low cost. Using optical fiber to replace copper wire as the high-speed signal transmission medium, H2C can perfectly transmit 4k UHD image up to more than 50 meters. Compared with the traditional copper wire, H2C AOC is much longer, softer, more slim, with better signal quality and perfect EMI/EMC feature. Compared with other HDMI optical fiber transmission solution, H2C AOC is easy to use, has perfect compatibility, and no external power supply needed.

2 Feature

1) Long distance transmission, over 50 meters
2) Support up to 4K UHD display
3) Plug and play without driver dependent
4) Thinner, lighter and softer than conventional copper cable
5) Highly resistant with EMI and RFI
6) No electromagnetic radiation
7) No external power needed
8) Smart connection indicator

   "Source" side triangle indicator: When "Source" connector plug into player, the green triangle blinks. When "Display" connector plug into display device, the triangle indicator show resolution of display device. "Green" indicates "SD" display and "Blue" indicate "FHD" or "UHD". "Red" triangle blinking and lighting LED flashing indicates wrong connection of "Source" and "Display".

   "Display" side lighting： When "Source" connection is ready and player is power on, the "Display" side lighting LED is on. When "Display" connection is ready, the lighting LED is automatically off.

3 Specification

Cable Length	
Up to 50m	
Catalog	5m/10m/20m/30m/50m
Interface	
HDMI type A pluggable - HDMI type A pluggable	
Speed	
Support 4k UHD display	
Power	
No external power needed	
Power Consumption	
250mW	
Mechanical / Condition	
Cable diameter	Ultra:4.6 mm Ultra-pro:3.8mm
Bend Radius	20mm
Tensile Performance	100N
Crush	200N
Operating and Storage Temp	-40 - 70°C

4 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

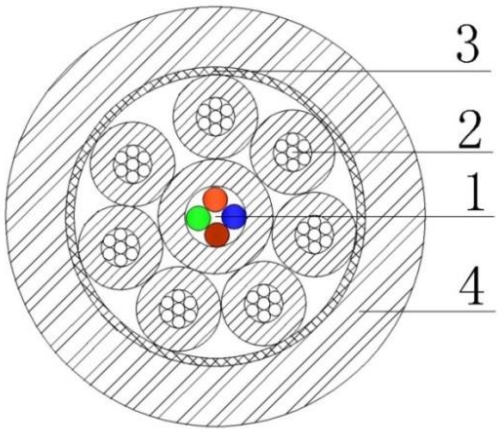
HD video conference

Outdoor large screen display systerr

Medical,military image system

5 Fiber Specification

1) Fiber Structure



1、 子缆（4 芯） 2、绞合镀锡套塑铜线（总计 7 根） 3、芳纶 4、外护套

2) Parameter

No.	Item	Specification	Comment
1：Sub-cable	Fiber	Fiber Bandwidth≥ 400MHz.km@850nm Cladding Diameter: 124.8±0.7um Cladding non-circularity: ≤0.8% Core/Cladding concentricity: ≤1um	4 core fiber, blue/orange/green/brown
	Coating	White PVC coating	Sub cable diameter: 0.95-1.0mm
2：Sub-Copper wire	Twisted copper	Twisted structure	
	Coating	PVC coating	7 copper wires: blue/orange/green/brown/grey/white/black Diameter: 0.72-0.74mm
3	Kevlar		4*1610dtex
4	Out coating	Black POHF-0602 or Black KPW-5890	Out diameter: 3.75±0.1mm Thickness: 0.55±0.05mm
Fiber attenuation		≤3.5dB/km@850nm	
Fiber Coating Printing		EP HDMI V4 E235264 (UL) 80℃ VW-1 A1b POHF-cable No XXXXm	
Braided Coating		PET, out diameter: 4.6±0.10mm	

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.