



SCP PART#: 996AOC-XXM

XX=Length

### **Armored AOC HDMI Cable**

Outdoor Rated w/Waterproof Neutrix Connector Covers,  
4K@60 4:4:4 24Gbps, TPU Jacket

## **SPECIFICATIONS**



### **DESCRIPTION**

Our armored HDMI Active Hybrid Cable is the most competitive long reach HDMI interconnection solution on the market. It supports HDMI Data Rate 6Gbps per channel ,total 24Gbps with light weight, flexible and ultra-small long-term bending radius (45mm) hybrid cable. With our advanced optical engine embedded. This HDMI Hybrid Cable provides full HDMI signal integrity, support up to 100m maximum length, plug and play. No external power required.



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### **KEY FEATURES**

- ◆ Up to 100m Maximum Length.
- ◆ Low Power Consumption: 250mW (max).
- ◆ Plug and Play
- ◆ Compatible with HDMI 2.0 standard
- ◆ Support ARC up to 100m.
- ◆ Support HDCP1.4/2.2
- ◆ Self-detecting function for EDID information
- ◆ No loss of signal – delivering crystal clear digital images instantly.
- ◆ Supports computer resolutions to 1080P and 4K2K(60P).
- ◆ Hybrid optical cable with fiber and copper wire
- ◆ Crush Resistance: Long term 100kg ; Short term 200kg

### **Applications**

- ◆ Digital Signage
- ◆ LED signboards in streets and in stadiums
- ◆ Medical Imaging Equipment
- ◆ Airplane On-board Video System
- ◆ Home Theater
- ◆ Blue-ray, 3D video, Projector, Set-up box, DVR, Game Consoles and Computer
- ◆ TV Broadcast Station
- ◆ Conference Room Video Equipment
- ◆ Security systems

### **Absolute Maximum Rating**

| Parameter             | Symbol | Min | Max | Unit |
|-----------------------|--------|-----|-----|------|
| Power Supply Voltage  | VCC    | 4.5 | 5.5 | V    |
| Operating Temperature | Top    | 0   | 50  | °C   |
| Storage Temperature   | Ts     | -40 | 70  | °C   |
| Relative Humidity     | Hs     | 10  | 80  | %RH  |

### **Recommended Operating Conditions**

| Parameter             | Symbol | Min  | Typical | Max  | Unit |
|-----------------------|--------|------|---------|------|------|
| Power Supply Voltage  | VCC    | 4.75 | 5.0     | 5.25 | V    |
| Operating Temperature | Top    | -40  |         | 80   | °C   |



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**Specifications**

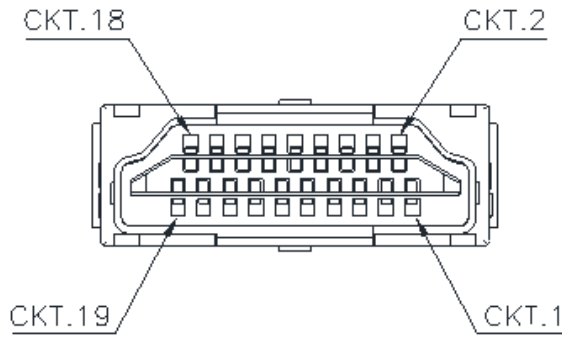
| Item                            | Description  |                    |
|---------------------------------|--|--------------------|
| Units                           | Transmitter (Source)   | Receiver (Sink)    |
| HDCP & DDC                      | HDCP 2.2 Fully Support bi-directional EDID and HDCP communication  |                    |
| Video Bandwidth                 | 6 Gbps/x3Channel (max)+ Clock.   |                    |
| Supported Resolution & Distance | PC: WUXGA 1920 x 1200 up to 100 meters, HDTV : 480p, 720p, 1080i and 1080p deep color, 4K(60P), 3DFull HD 1920 x 1080 up to 100 meters |                    |
| O/E Converter                   | 4 channel 850 nm VCSEL array   | 4 CH GaAs PD array |
| Connector Type                  | HDMI type A  |                    |
| Cable Type                      | Armored Hybrid type with OM3 fiber and copper wire   |                    |
| Cable Length                    | 15m/20m/30m/40m/50m/60m/70m/80m/90m/100m (with +/-30cm tolerance) Custom length available.   |                    |
| Cable Outer Diameter            | 5.8mm  |                    |
| Jacket Outer Material           | TPU(Custom)  |                    |
| Cable Weight TBD                | Cable Weight TBD   |                    |
| Cable Color TBD                 | Cable Color TBD  |                    |
| Differential Input              | 100 ohm (typ)  |                    |
| Power Consumption               | 250mW (max)  |                    |
| Power Supply                    | Non external power required  |                    |



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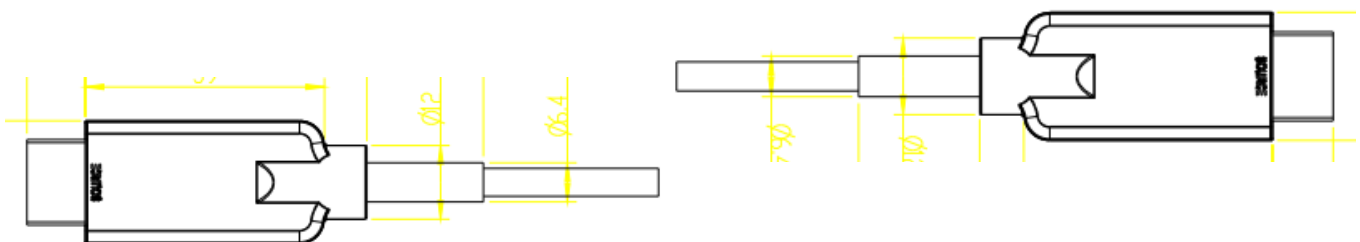
## HDMI Type A Pin Assignment



### HDMI Type A Connector Pin Assignment

| PIN | Function               | PIN | Function          |
|-----|------------------------|-----|-------------------|
| 1   | T.M.D.S. Data 2+       | 11  | TMDS Clock Shield |
| 2   | T.M.D.S. Data 2 Shield | 12  | TMDS Clock-       |
| 3   | T.M.D.S. Data 2-       | 13  | CEC               |
| 4   | T.M.D.S. Data 1+       | 14  | Utility           |
| 5   | T.M.D.S. Data 1 Shield | 15  | SCL               |
| 6   | T.M.D.S. Data 1-       | 16  | SDA               |
| 7   | T.M.D.S. Data 0+       | 17  | DDC/CEC Ground    |
| 8   | T.M.D.S. Data 2 Shield | 18  | +5V Power         |
| 9   | T.M.D.S. Data 0-       | 19  | Hot Plug Detect   |
| 10  | TMDS Clock+            |     |                   |

## Installation



To Source, ex. DVD, PC

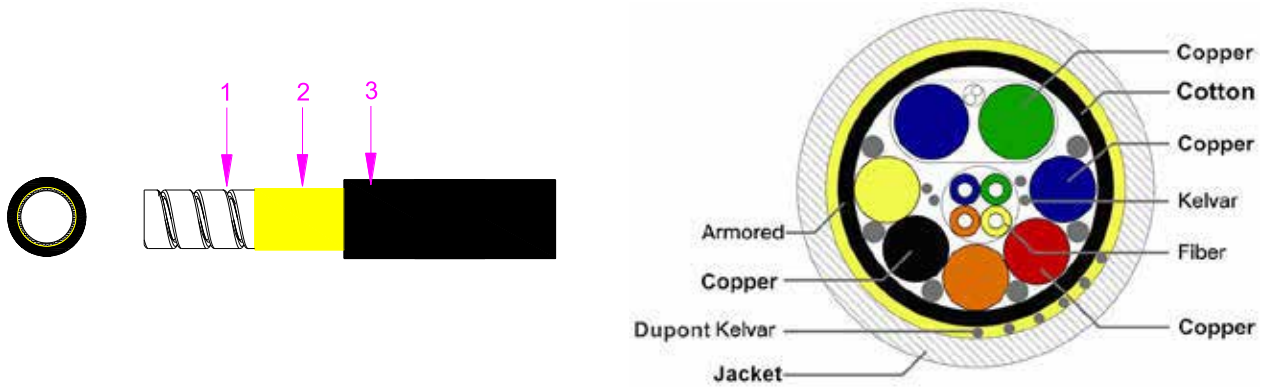
To Sink, ex. TV



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**Hybrid Cable Profile**



| Cable Structure |                        | Material/Model        | Specifications |
|-----------------|------------------------|-----------------------|----------------|
| 1               | Metal Tube             | 200CU Stainless steel | 4.4±0.1        |
| 2               | To strengthen the unit | Dupont Kevlar         | 1670D*4        |
| 3               | Jacket                 | TPU                   | OD 5.8±0.2 mm  |

| Tensile(N) |            | Crush Resistance(N/100mm) |            | Bending Radius(mm) |        | Temperature(°C) |
|------------|------------|---------------------------|------------|--------------------|--------|-----------------|
| Long Term  | Short Term | Long Term                 | Short Term | Dynamic            | Static |                 |
| 400        | 800        | 1000                      | 2000       | 10D                | 20D    |                 |



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| <b>Part Number</b> | <b>Lenght (m/ft)</b> | <b>Weight (kg/lb)</b> | <b>Dimensions (cm/in)</b>       |
|--------------------|----------------------|-----------------------|---------------------------------|
| <b>996AOC-10M</b>  | 10m/32.8ft           | 1 kg/2.2 lb           | 23.5*22.5*7.4cm/9.2*8.8*2.9in   |
| <b>996AOC-15M</b>  | 15m/49.2ft           | 1.4 kg/3.0 lb         | 23.5*22.5*7.4cm/9.2*8.8*2.9in   |
| <b>996AOC-20M</b>  | 20m/65.6ft           | 1.55 kg/3.4 lb        | 28.5*27.5*7.4cm/11.2*10.8*2.9in |
| <b>996AOC-25M</b>  | 25m/82ft             | 1.7 kg/3.7 lb         | 28.5*27.5*7.4cm/11.2*10.8*2.9in |
| <b>996AOC-30M</b>  | 30m/114.8ft          | 1.95 kg/4.2 lb        | 28.5*27.5*7.4cm/11.2*10.8*2.9in |
| <b>996AOC-40M</b>  | 40m/131.2ft          | 2.8 kg/6.1 lb         | 33.5*32.5*7.4cm/13.1*12.7*2.9in |
| <b>996AOC-50M</b>  | 50m/164ft            | 3.9 kg/8.5 lb         | 33.5*32.5*7.4cm/13.1*12.7*2.9in |
| <b>996AOC-70M</b>  | 70m/229.6ft          | 4.5 kg/9.9 lb         | 33.5*32.5*7.4cm/13.1*12.7*2.9in |
| <b>996AOC-90M</b>  | 90m/295.2ft          | 5.5 kg/12.1 lb        | 33.5*32.5*7.4cm/13.1*12.7*2.9in |
| <b>996AOC-100M</b> | 100m/378ft           | 6.4 kg/14.1 lb        | 33.5*32.5*7.4cm/13.1*12.7*2.9in |