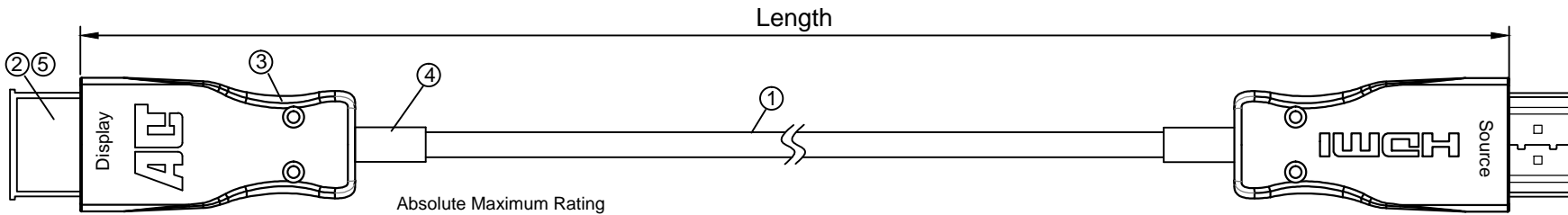


# RoHS CompliantU



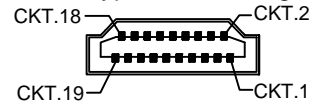
### Absolute Maximum Rating

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	0		50	°C

### HDMI Type A Pin Assignment z



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+		

Item NO.	Length(m)
AK3930	10.0m
AK3931	15.0m
AK3932	20.0m
AK3933	30.0m
AK3934	40.0m
AK3935	50.0m
AK3936	60.0m
AK3937	70.0m
AK3938	80.0m
AK3939	90.0m
AK3940	100.0m

### Specifications

Item	Description	
	Transmitter (Source)	Receiver (Sink)
Units		
HDCP & DDC	HDCP 2.2 Fully Support bi-directional EDID and HDCP communication	
Video Bandwidth	6 Gbps/x3Channel (max)+ Clock.	
Supported	4k@60Hz@4:4:4@100m	
Resolution & Distance		
O/E Converter	4 channel 850 nm VCSEL array	4 CH GaAs PD array
Connector Type	HDMI type A	
Cable Type	Hybrid type with OM3 fiber and copper	
Cable Length	75m/100m(with +/- cm tolerance) Custom length available.	
Cable Outer Diameter	4.8mm	
Jacket Outer Material	TPU(Custom)	
Differential Input	100 ohm (typ)	

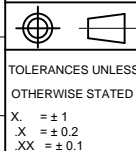
### KEY FEATURES

- ◆ Up to 100m Maximum Length.(Custom Length Available)
- ◆ Supports computer resolutions to **4K@60Hz@4:4:4**
- ◆ Plug and Play
- ◆ Compatible with **HDMI 2.0 standard**
- ◆ Support **HDCP2.2@ARC**
- ◆ Self-detecting function for EDID information
- ◆ No loss of signal
- ◆ Hybrid optical cable with fiber and copper wire

### 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

⑤		HDMI Protective Cap, PE	2PCS	
④	SR	Black	2PCS	
③	Shell	Metal Shell, Gun color	2Sets	
②	Connector	HDMI-A male, Gold-Plated	2Sets	
①	Cable	HDMI 2.0 Optical Cable OD4.8		
ITEM	DESCRIPTIONS & SPECIFICATIONS		QTY	REMARK



ERP NO.:		SAMPLE DWG NO.:	
DOC No.:		REVISION	A0
CUSTOMER:		UNIT	mm
CUSTOMER P/N:		SCALE	NO
DESCRIPTION	HDMI 2.0 Active Optical Cable	PAGE NO	1/1
APPROVAL		CHECKED	