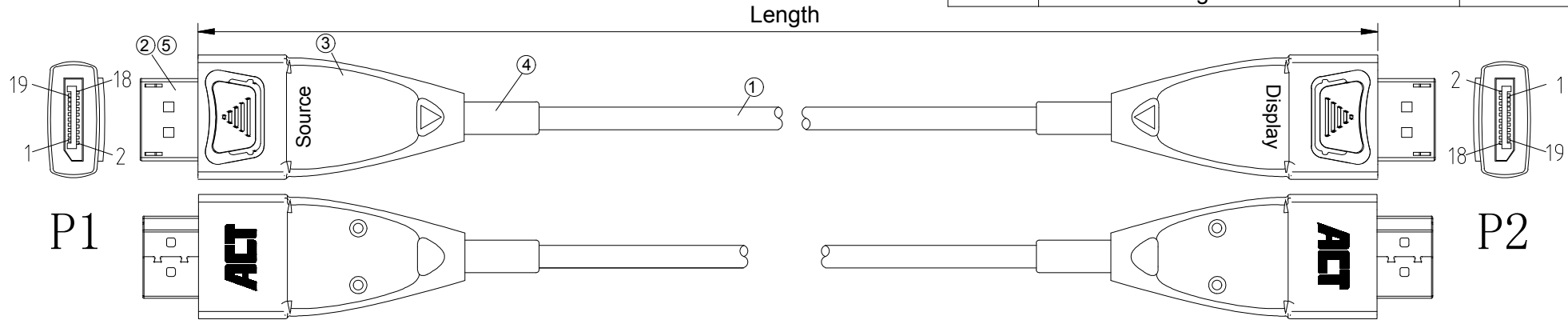


RoHS Compliant

REV.	REVISED DESCRIPTION	DATE	CHECKED
A0	FIRST RELEASE	2019/04/16	
A1	Add Bending Radius	2021/01/14	



KEY FEATURES

- ◆ Up to 100m Maximum Length.(Custom Length Available)
- ◆ Supports computer resolutions to **8K@60Hz@4:4:4**
- ◆ Plug and Play
- ◆ Compatible with **DP1.4 standard**
- ◆ 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
- ◆ Minimum Bend Radius 48mm

Absolute Maximum Rating

Parameter	Symbol	Min	Max	Unit
Power Supply Voltage	VCC	3.2	3.5	V
Operating Temperature	Top	-20	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	3.2	3.3	3.5	V
Operating Temperature	Top	-20		50	°C

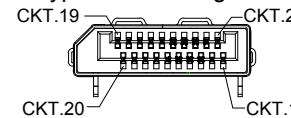
PIN	Function	PIN	Function
1	IN ML Lane3 (n)	11	GND
2	GND	12	IN ML Lane0 (p)
3	IN ML Lane3 (p)	13	GND
4	IN ML Lane2(n)	14	GND
5	GND	15	I/O AUX CH (p)
6	IN ML Lane2 (p)	16	GND
7	IN ML Lane1 (n)	17	I/O AUX CH (n)
8	GND	18	OUT Hot Plug Detect
9	IN ML Lane1 (p)	19	RTN Rreturn
10	IN ML Lane0 (n)	20	PowerOut DP PWR

Item NO.	Length(m)
AK4030	10.0m
AK4031	15.0m
AK4032	20.0m
AK4033	30.0m
AK4034	40.0m
AK4035	50.0m
AK4036	60.0m
AK4037	70.0m
AK4038	80.0m
AK4039	90.0m
AK4040	100.0m

Specifications

Item	Description	
	Transmitter (Source)	Receiver (Sink)
Units		
HDCP & DDC	HDCP 1.4 & HDCP 2.2	
Video Bandwidth	32.4 Gbps	
Supported	8k@60Hz@4:4:4	
Resolution & Distance		
Connector Type	PD 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)	

DP Type A Pin Assignmentz



ITEM	DESCRIPTIONS & SPECIFICATIONS	QTY	REMARK
⑤	DP Protective Cap, PE	2PCS	
④	SR	2PCS	
③	Shell	2Sets	
②	Connector	2Sets	
①	Cable		DP 1.4 Optical Cable OD4.8

TOLERANCES UNLESS OTHERWISE STATED
X. = ± 1
X.X = ± 0.2
X.XX = ± 0.1

ACT		ERP NO.:	SAMPLE DWG NO.:
		DOC No.:	REVISION
		CUSTOMER:	UNIT
		CUSTOMER P/N:	SCALE
		DESCRIPTION	PAGE NO
		DP 1.4 Active Optical Cable	DATE
		APPROVAL	DRAWN
		CHECKED	
			2021/01/14