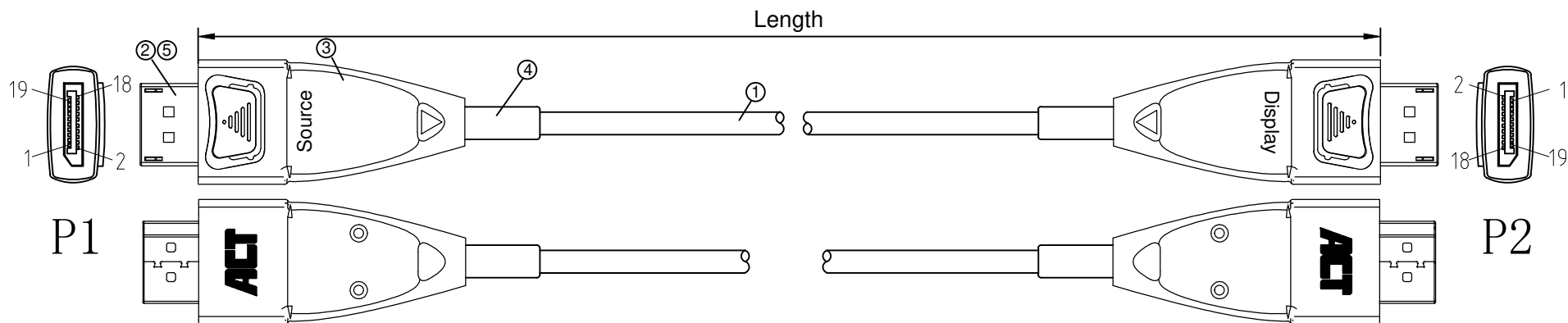


RoHS Compliant

| REV. | REVISED DESCRIPTION | DATE | CHECKED |
|------|---------------------|------------|---------|
| A0 | FIRST RELEASE | 2019/04/16 | |



KEY FEATURES

- ◆ Up to 100m Maximum Length.(Custom Length Available)
- ◆ Supports computer resolutions to **4K@60Hz@4:4:4**
- ◆ Plug and Play
- ◆ Compatible with **DP1.2 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

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 |

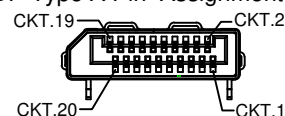
| PIN | Function | PIN | Function |
|-----|-----------------|-----|---------------------|
| 1 | IN ML Lane3 (n) | 11 | GND |
| 2 | GND | 12 | IN ML Lane0 (p) |
| 3 | IN ML Lane3 (p) | 13 | GND |
| 4 | IN ML Lane2(n) | 14 | GND |
| 5 | GND | 15 | I/O AUX CH (p) |
| 6 | IN ML Lane2 (p) | 16 | GND |
| 7 | 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 |

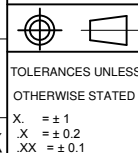
Specifications

| Item | Description | |
|-----------------------|--|-----------------|
| | Transmitter (Source) | Receiver (Sink) |
| HDCP & DDC | HDCP 1.1 & HDCP 1.3 | |
| Video Bandwidth | 21.6 Gbps | |
| Supported | 4k@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 1.2 Optical Cable OD4.8 | | |



| | | | |
|-------------|---------|-----------------------------|----------------|
| ACT | | ERP NO.: | SAMPLE DWG NO: |
| | | DOC No.: | REVISION A0 |
| | | CUSTOMER: | UNIT mm |
| | | CUSTOMER P/N: | SCALE NO |
| DESCRIPTION | | DP 1.2 Active Optical Cable | PAGE NO 1/1 |
| | | DATE | 2019/04/16 |
| APPROVAL | CHECKED | DRAWN | |