



**SCP PART#: DP14AOC-XXM**

**DESCRIPTION:**

DisplayPort 1.4 Active Optical Cable HBR3 8K@60 32.4Gbps, Hybrid Copper/Fiber, HDR, DP(m) to DP(m), DPCP/EDID/DDC/CEC - LSZH Rated- Black - 1ea/Plastic Spool

## DP 1.4 AOC Manual



### Description

SCP DP 1.4 AOC is our new Audio/Video cable , HD signal transmission depending on optical fiber, not only its support length become much longer (above 100m) ,but also signal quality is much more stable , no EMI completely, especially can support 8.1Gbps bandwidth per channel , 32Gbps total . Support 8K, meets DP1.4 Standard, It is a mature & competitive solution in the high speed data transmission market . This optical fiber cable can be applied to computer with USB type C interface, Displays outdoor, LED signboards in streets / stadiums and Security System, that transfer audio video signal .



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**Key Features**

1. Support 8K@60Hz , Supports HBR3, HDCP 1.4 / 2.2; very good compatibility;
2. Support DP1.4 standard, bandwidth can reach 8.1 Gbps per channel, 32Gbps total;
3. Support length up to 100m max , length custom is available ;
4. Hybrid fiber and copper, much more slim and light ;
5. OD 4.8 mm, very flexible;
6. Low RFI / EMI profile for sensitive applications

**Specifications**

**1. Performance**

Standards Compliance	DisplayPort 1.4 / HBR3, HDCP 1.4 / 2.2
Maximum Pixel Clock Frequency	810 MHz
Maximum Video Bit Rate	Supports up to 8.1 Gbps per lane, 32.4 Gbps Total
Maximum Color Depth	48bits
Maximum Supported Resolutions	8K@ 60Hz

**2. Connections**

DisplayPort Input / Output	20-pin DisplayPort
Power	No external power supply is required.

**3. AUX Channel Support**

AUX Channel Communications	Supports bidirectional communications for EDID, HDCP, Link Training, etc.
HDCP Support	HDCP 1.4 and HDCP 2.2



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#### 4. Optical

Optical Technology	4x Discrete Optical Channels, 10 GHz, 850 nm
Optical Transmitter	Tx Module: 4x 850 nm Multi-mode VCSELs
Optical Receiver	Rx Module: 4x GaAs PIN Photo Diodes

#### 5. Cable

Fiber Cable Type	Hybrid cable 4x fiber and 8x copper wire
Cable Jacket	PVC, Black
Maximum Cable Length	100 meters

#### 6. Mechanical - Cable

Product Weight	Varies with length
Maximum Tensile Load	300N
Minimum Bend Radius	48mm
Cable Outside Diameter (W x H)	4.8mm

#### 7. Environmental

Operating Temperature	0°C to + 50°C
Storage Temperature	-20°C to + 85°C
Operating / Storage Humidity	5% to 85% (non-condensing)

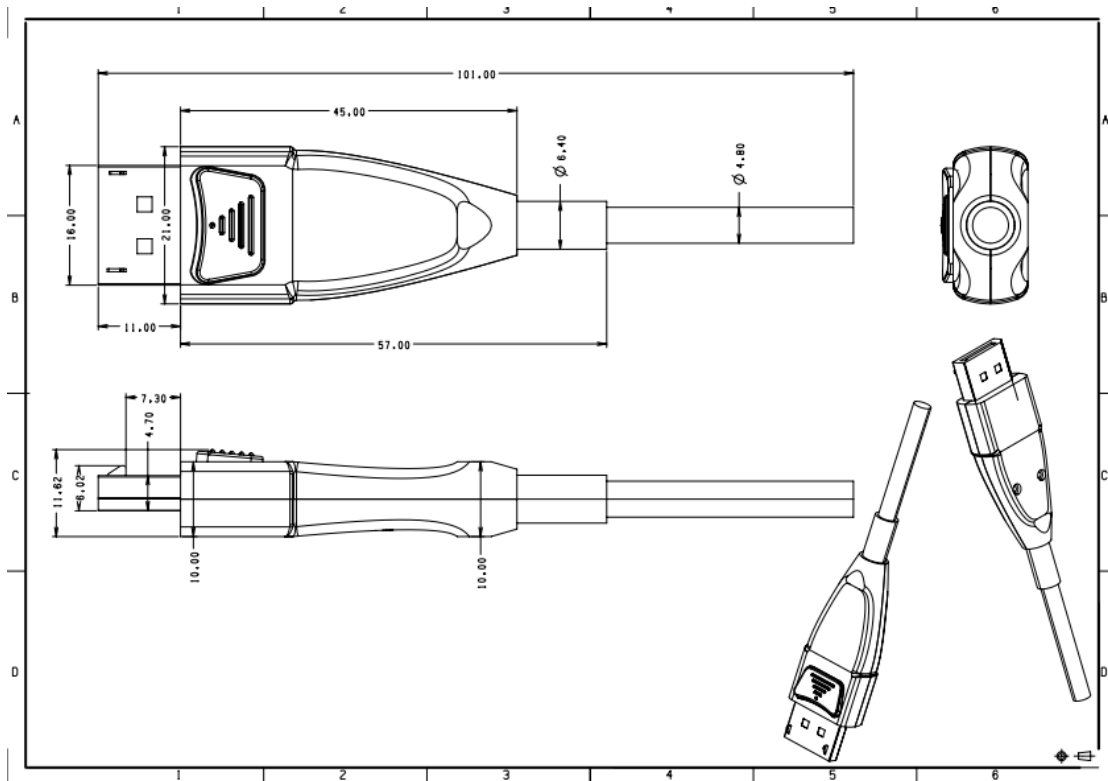
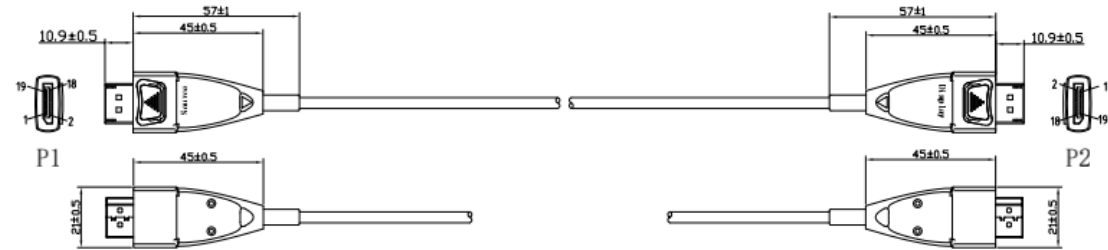
#### 8. Power Requirements

Power Source	Powered from DisplayPort source device
Power Consumption	< 0.5 watt each end



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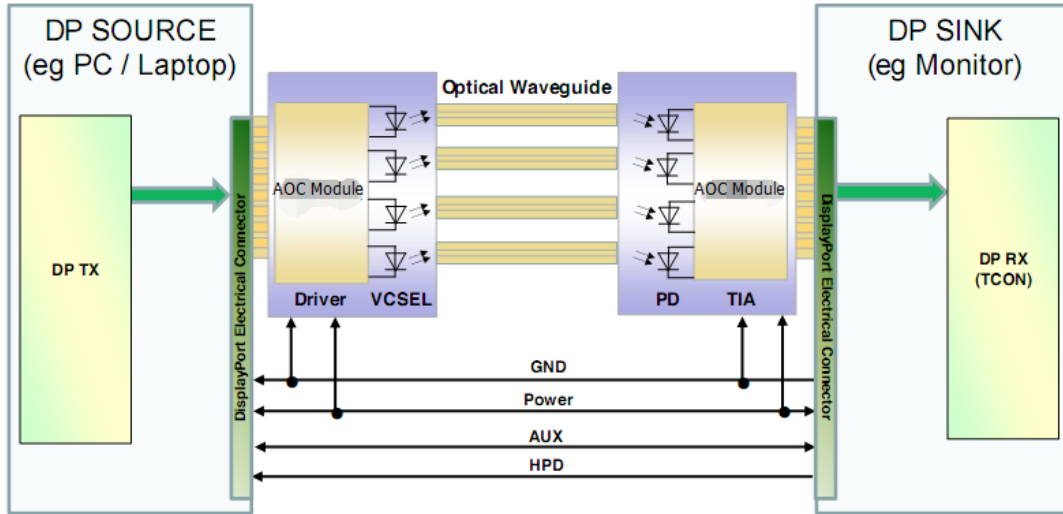
## Structure



DP 1.4 AOC Drawing



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**Applications**

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

**Packaging:**

DESCRIPTION	G.W./PC (KGS)	PCS/ CTN	CTN QTY (PCS)	N.W./CTN (KGS)	G.W./CTN (KGS)	CARTON SIZE (CM)	Total CBM	Reel size	Reel Label size
DP1.4AOC-10M	0.8	10	1	8	9	47*38.5*25.5	0.05		106*106mm
DP1.4AOC-15M	0.85	10	1	8.5	9.5	47*38.5*26.5	0.05		
DP1.4AOC-20M	0.9	10	1	9	10	47*38.5*26.5	0.05		
DP1.4AOC-30M	1.35	10	1	14	14.5	47*38.5*26.5	0.05		